

**APPENDIX 5.18**  
**Groundwater and Pore Water Sample**  
**Analytical Data Packages**



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

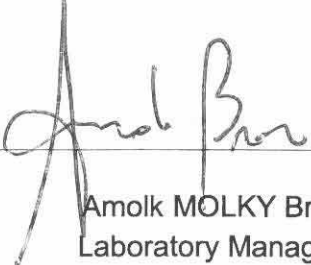
Number of Pages 37  
Date Received 11/23/2004  
Date Reported 12/06/2004

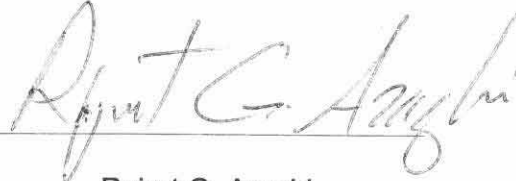
Telephone (858) 571-5500  
Attn Keith Etchells

Job Number	Ordered	Client
23889	11/23/2004	ENVBUS

Project ID: 01203520.00  
Project Name: MBLF  
Site: Sea World Dr.  
South Shores

Enclosed are the results of analyses on 9 samples analyzed as specified on attached chain of custody.

  
Amolk MOLKY Brar  
Laboratory Manager

  
Rojert G. Araghi  
Laboratory Director

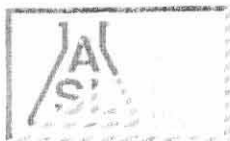
RECEIVED

DEC 09 2004

EBS  
SOS Engineers Co

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



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*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9200 Fax: (323) 223-9500

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 120.1, Specific Conductance

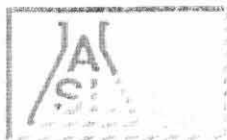
### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		12/01/2004	12/01/2004	12/01/2004	12/01/2004	12/01/2004
Preparation Method						
Date Analyzed		12/01/2004	12/01/2004	12/01/2004	12/01/2004	12/01/2004
Matrix		Water	Water	Water	Water	Water
Units		umhos/cm	umhos/cm	umhos/cm	umhos/cm	umhos/cm
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Conventionals						
Conductivity (umho/cm @77F)	1.00	59,500	74,100	69,600	56,100	56,300

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Conductivity (umho/cm @77F)	115	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
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San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 120.1, Specific Conductance

### Batch No:

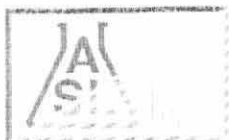
Our Lab I.D.		139681	139682	139683	139684	
Sample ID		MBW3	MBE4	MBE6	SCS3	
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	
Date Extracted		12/01/2004	12/01/2004	12/01/2004	12/01/2004	
Preparation Method						
Date Analyzed		12/01/2004	12/01/2004	12/01/2004	12/01/2004	
Matrix		Water	Water	Water	Water	
Units		umhos/cm	umhos/cm	umhos/cm	umhos/cm	
Detection Limit Multiplier		1	1	1	1	
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	
<b>Conventionals</b>						
Conductivity (umho/cm @77F)	1.00	86,500	111,000	42,400	51,800	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
<b>Conventionals</b>									
Conductivity (umho/cm @77F)	115	80-120							





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#### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 130.2, Hardness, Total (mg/L as CaCO<sub>3</sub>)

#### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004
Preparation Method						
Date Analyzed		11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Conventionals						
Hardness (Ca,Mg) as CaCO <sub>3</sub>	10	6,700	300	400	300	4,500

### QUALITY CONTROL REPORT

#### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Hardness (Ca,Mg) as CaCO <sub>3</sub>	90	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
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San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 5  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 130.2, Hardness, Total (mg/L as CaCO<sub>3</sub>)

### Batch No:

Our Lab I.D.		139681	139682	139683	139684	
Sample ID		MBW3	MBE4	MBE6	SCS3	
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	
Date Extracted		11/29/2004	11/29/2004	11/29/2004	11/29/2004	
Preparation Method						
Date Analyzed		11/29/2004	11/29/2004	11/29/2004	11/29/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	
<b>Conventionals</b>						
Hardness (Ca,Mg) as CaCO <sub>3</sub>	10	8,100	11,600	4,900	5,000	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
<b>Conventionals</b>									
Hardness (Ca,Mg) as CaCO <sub>3</sub>	90	80-120							



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San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 6  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 150.1, pH

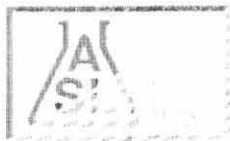
### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004
Preparation Method						
Date Analyzed		11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004
Matrix		Water	Water	Water	Water	Water
Units		pH Units	pH Units	pH Units	pH Units	pH Units
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Conventional						
pH	1.00	7.08	7.07	6.76	6.73	6.68

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventional									
pH	100	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 150.1, pH

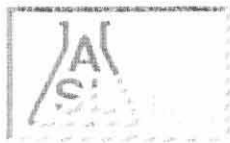
### Batch No:

Our Lab I.D.		139681	139682	139683	139684
Sample ID		MBW3	MBE4	MBE6	SCS3
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/23/2004	11/23/2004	11/23/2004	11/23/2004
Preparation Method					
Date Analyzed		11/23/2004	11/23/2004	11/23/2004	11/23/2004
Matrix		Water	Water	Water	Water
Units		pH Units	pH Units	pH Units	pH Units
Detection Limit Multiplier		1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>					
pH	1.00	6.63	6.86	7.37	6.95

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
<b>Analytes</b>	% REC	% Limit							
<b>Conventionals</b>									
pH	100	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 8

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 160.1, Total Dissolved Solids (TDS)

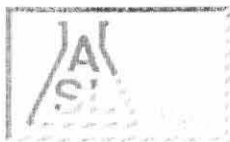
### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>						
Solids, Total Dissolved (TDS)	10	39,700	49,300	47,100	34,800	34,800

## QUALITY CONTROL REPORT

### Batch No:

	LCS % REC	LCS/LCSD % Limit							
<b>Analytes</b>									
<b>Conventionals</b>									
Solids, Total Dissolved (TDS)	89	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 9

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 160.1, Total Dissolved Solids (TDS)

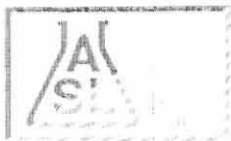
### Batch No:

Our Lab I.D.		139681	139682	139683	139684	
Sample ID		MBW3	MBE4	MBE6	SCS3	
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
Solids, Total Dissolved (TDS)	10	60,400	82,300	28,500	33,500	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Solids, Total Dissolved (TDS)	89	80-120							



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*Environmental Testing Services*

2820 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9800

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 10

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 300, Chloride by Ion Chromatography

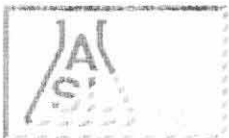
### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>						
Chloride	1.000	23,300	29,500	27,500	17,400	22,100

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD						
<b>Analytes</b>	% REC	% Limit						
<b>Conventionals</b>								
Chloride	115	80-120						



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## ANALYTICAL RESULTS

### Ordered By

### Site

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 11

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 300, Chloride by Ion Chromatography

### Batch No:

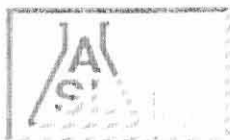
Our Lab I.D.		139681	139682	139683	139684
Sample ID		MBW3	MBE4	MBE6	SCS3
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004
Preparation Method					
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004
Matrix		Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Conventionals					
Chloride	1.000	35,300	49,000	15,600	19,100

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Chloride	115	80-120							





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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 300, Fluoride by Ion Chromatography

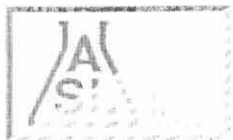
### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Conventionals						
Fluoride	0.100	0.78	0.30	2.22	ND	1.71

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Fluoride	114	80-120							



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Page: 13

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Project Name: MBLF

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Order Date

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Client

ENVBUS

Method: 300, Flouride by Ion Chromatography

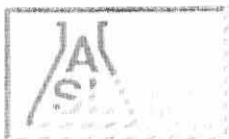
### Batch No:

Our Lab I.D.		139681	139682	139683	139684	
Sample ID		MBW3	MBE4	MBE6	SCS3	
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
Fluoride	0.100	2.42	0.53	0.63	0.38	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Fluoride	114	80-120							



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

3520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 300, Anions by Ion Chromatography

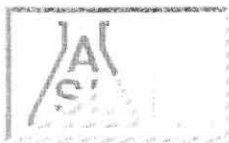
### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Conventionals						
Nitrate as N	0.100	ND	ND	ND	ND	ND
Sulfate	1.00	3270	3630	1120	176	815

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Nitrate as N	111	80-120							
Sulfate	114	80-120							



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*Environmental Testing Services*

2570 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9500 Fax: (323) 223-9501

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 300, Anions by Ion Chromatography

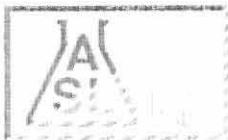
### Batch No:

Our Lab I.D.		139681	139682	139683	139684
Sample ID		MBW3	MBE4	MBE6	SCS3
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004
Preparation Method					
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004
Matrix		Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Conventionals					
Nitrate as N	0.100	ND	ND	ND	ND
Sulfate	1.00	2710	4340	2200	2540

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Nitrate as N	111	80-120							
Sulfate	114	80-120							



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South Shores

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Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 310.1, Alkalinity

### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/30/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004
Preparation Method						
Date Analyzed		11/30/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>						
Alkalinity, Total	10	1440	1260	1710	2620	1320
Bicarbonate	10	1200	1080	1450	2220	1120
Carbonate	10	240	180	260	400	200
Hydroxide	10	ND	ND	ND	ND	ND

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
<b>Conventionals</b>									
Alkalinity, Total	100	80-120							



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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 310.1, Alkalinity

### Batch No:

Our Lab I.D.		139681	139682	139683	139684
Sample ID		MBW3	MBE4	MBE6	SCS3
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/30/2004	11/30/2004	11/30/2004	11/30/2004
Preparation Method					
Date Analyzed		11/30/2004	11/30/2004	11/30/2004	11/30/2004
Matrix		Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Conventionals					
Alkalinity, Total	10	1880	1660	240	350
Bicarbonate	10	1620	1440	240	270
Carbonate	10	260	220	ND	80
Hydroxide	10	ND	ND	ND	ND

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Alkalinity, Total	100	80-120							



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Project ID: 01203520.00

Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 7199, Hexavalent Chromium by Ion Chromatography

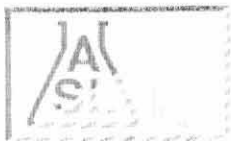
### Batch No:

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004
Preparation Method						
Date Analyzed		11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004
Matrix		Water	Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Conventionals						
Chromium (VI)	1.000	ND	ND	ND	ND	ND

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD						
Analytes	% REC	% Limit						
Conventionals								
Chromium (VI)	94	80-120						



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South Shores

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Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 7199, Hexavalent Chromium by Ion Chromatography

### Batch No:

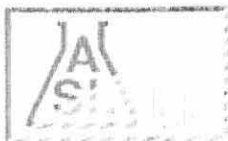
Our Lab I.D.		139681	139682	139683	139684
Sample ID		MBW3	MBE4	MBE6	SCS3
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/23/2004	11/23/2004	11/23/2004	11/23/2004
Preparation Method					
Date Analyzed		11/23/2004	11/23/2004	11/23/2004	11/23/2004
Matrix		Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Conventionals					
Chromium (VI)	1.000	ND	ND	ND	ND

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Chromium (VI)	94	80-120							





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Environmental Testing Services

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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

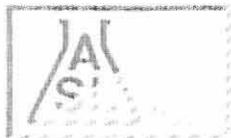
Client

ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 112404-2B

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/25/2004	11/25/2004	11/25/2004	11/25/2004	11/25/2004
Preparation Method		5030B	5030B	5030B	5030B	5030B
Date Analyzed		11/25/2004	11/25/2004	11/25/2004	11/25/2004	11/25/2004
Matrix		Water	Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Acetone	5.00	ND	ND	ND	ND	ND
Benzene	1.000	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	1.000	ND	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	1.000	ND	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	1.000	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	5.000	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.000	ND	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	5.00	ND	ND	ND	ND	ND
n-Butylbenzene	1.000	ND	ND	ND	ND	ND
sec-Butylbenzene	1.000	ND	ND	ND	ND	ND
tert-Butylbenzene	1.000	ND	ND	ND	ND	ND
Carbon disulfide	1.000	ND	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	1.000	ND	ND	ND	ND	ND
Chlorobenzene	1.000	ND	ND	ND	ND	ND
Chloroethane	3.000	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	5.000	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	1.000	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	3.000	ND	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	1.000	ND	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	1.000	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	5.000	ND	ND	ND	ND	ND
Dibromochloromethane	1.000	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	1.000	ND	ND	ND	ND	ND
Dibromomethane	1.000	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	1.000	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	1.000	ND	ND	ND	ND	ND



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## ANALYTICAL RESULTS

Page: 21  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 112404-2B

Our Lab I.D.		139676	139677	139678	139679	139680
Sample ID		MBW5	MW10	SCS2	SCS1	SCS4
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Analytes	PQL	Results	Results	Results	Results	Results
1,4-Dichlorobenzene (p-Dichlorobenzene)	1.000	ND	ND	ND	2.1	4.6
Dichlorodifluoromethane	3.000	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.000	ND	ND	ND	ND	ND
1,2-Dichloroethane	1.000	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	1.000	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.000	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.000	ND	ND	ND	ND	ND
1,2-Dichloropropane	1.000	ND	ND	ND	ND	ND
1,3-Dichloropropane	1.000	ND	ND	ND	ND	ND
2,2-Dichloropropane	1.000	ND	ND	ND	ND	ND
1,1-Dichloropropene	1.000	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	1.000	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	1.000	ND	ND	ND	ND	ND
Ethylbenzene	1.000	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	3.000	ND	ND	ND	ND	ND
2-Hexanone	5.000	ND	ND	ND	ND	ND
Isopropylbenzene	1.000	ND	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	1.000	ND	ND	ND	ND	ND
MTBE	2.000	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	5.00	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	5.00	ND	ND	ND	ND	ND
Naphthalene	1.000	ND	ND	ND	ND	ND
n-Propylbenzene	1.000	ND	ND	ND	ND	ND
Styrene	1.000	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.000	ND	ND	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	1.000	ND	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	1.000	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	1.000	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	1.000	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.000	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.000	ND	ND	ND	ND	ND
Trichloroethene (TCE)	1.000	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.000	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	1.000	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	1.000	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	1.000	ND	ND	ND	ND	ND
Vinyl acetate	5.00	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	3.000	ND	ND	ND	ND	ND
o-Xylene	1.000	ND	ND	ND	ND	ND
m- & p-Xylenes	2.000	ND	ND	ND	ND	ND



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## ANALYTICAL RESULTS

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Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

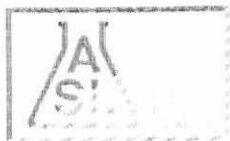
Method: 8260B, Volatile Organic Compounds

Our Lab I.D.		139676	139677	139678	139679	139680
Surrogates	Con. Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	114	112	113	111	113
Dibromofluoromethane	70-120	106	104	104	104	102
Toluene-d8	70-120	96	95	96	94	95

## QUALITY CONTROL REPORT

Batch No: 112404-2B

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	96	102	6.1	75-120	15					
Chlorobenzene	98	94	4.2	75-120	15					
1,1-Dichloroethene (1,1-Dichloroethylene)	82	82	<1	75-120	15					
MTBE	96	104	8.0	75-120	15					
Toluene (Methyl benzene)	96	103	7.0	75-120	15					
Trichloroethene (TCE)	92	94	2.2	75-120	15					



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## ANALYTICAL RESULTS

### Ordered By

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### Site

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South Shores

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Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

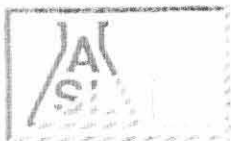
Client

ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 112404-2B

Our Lab I.D.		139681	139682	139683	139684
Sample ID		MBW3	MBE4	MBE6	SCS3
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/25/2004	11/25/2004	11/25/2004	11/25/2004
Preparation Method		5030B	5030B	5030B	5030B
Date Analyzed		11/25/2004	11/25/2004	11/25/2004	11/25/2004
Matrix		Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Acetone	5.00	ND	ND	ND	ND
Benzene	1.000	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	1.000	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	1.000	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	1.000	ND	ND	ND	ND
Bromoform (Tribromomethane)	5.000	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.000	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	5.00	ND	ND	ND	ND
n-Butylbenzene	1.000	ND	ND	ND	ND
sec-Butylbenzene	1.000	ND	ND	ND	ND
tert-Butylbenzene	1.000	ND	ND	ND	ND
Carbon disulfide	1.000	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	1.000	ND	ND	ND	ND
Chlorobenzene	1.000	ND	ND	ND	ND
Chloroethane	3.000	ND	ND	ND	ND
2-Chloroethyl vinyl ether	5.000	ND	ND	ND	ND
Chloroform (Trichloromethane)	1.000	ND	ND	ND	ND
Chloromethane (Methyl chloride)	3.000	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	1.000	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	1.000	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	5.000	ND	ND	ND	ND
Dibromochloromethane	1.000	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	1.000	ND	ND	ND	ND
Dibromomethane	1.000	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	1.000	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	1.000	ND	ND	ND	ND



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## ANALYTICAL RESULTS

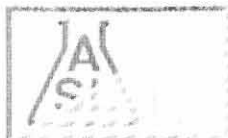
Page: **24**  
 Project ID: 01203520.00  
 Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 112404-2B

Our Lab I.D.		139681	139682	139683	139684
Sample ID		MBW3	MBE4	MBE6	SCS3
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004
Analytes	PQL	Results	Results	Results	Results
1,4-Dichlorobenzene (p-Dichlorobenzene)	1.000	ND	ND	ND	ND
Dichlorodifluoromethane	3.000	ND	ND	ND	ND
1,1-Dichloroethane	1.000	ND	ND	ND	ND
1,2-Dichloroethane	1.000	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	1.000	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.000	ND	5.8	ND	ND
trans-1,2-Dichloroethene	1.000	ND	ND	ND	ND
1,2-Dichloropropane	1.000	ND	ND	ND	ND
1,3-Dichloropropane	1.000	ND	ND	ND	ND
2,2-Dichloropropane	1.000	ND	ND	ND	ND
1,1-Dichloropropene	1.000	ND	ND	ND	ND
cis-1,3-Dichloropropene	1.000	ND	ND	ND	ND
trans-1,3-Dichloropropene	1.000	ND	ND	ND	ND
Ethylbenzene	1.000	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	3.000	ND	ND	ND	ND
2-Hexanone	5.000	ND	ND	ND	ND
Isopropylbenzene	1.000	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	1.000	ND	ND	ND	ND
MTBE	2.000	ND	ND	12.5	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	5.00	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	5.00	ND	ND	ND	ND
Naphthalene	1.000	ND	ND	ND	ND
n-Propylbenzene	1.000	ND	ND	ND	ND
Styrene	1.000	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.000	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.000	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	1.000	ND	ND	ND	ND
Toluene (Methyl benzene)	1.000	ND	ND	ND	ND
1,2,3-Trichlorobenzene	1.000	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.000	ND	ND	ND	ND
1,1,1-Trichloroethane	1.000	ND	ND	ND	ND
1,1,2-Trichloroethane	1.000	ND	ND	ND	ND
Trichloroethene (TCE)	1.000	ND	ND	ND	ND
Trichlorofluoromethane	1.000	ND	ND	ND	ND
1,2,3-Trichloropropane	1.000	ND	ND	ND	ND
1,2,4-Trimethylbenzene	1.000	ND	ND	ND	ND
1,3,5-Trimethylbenzene	1.000	ND	ND	ND	ND
Vinyl acetate	5.00	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	3.000	ND	ND	ND	ND
o-Xylene	1.000	ND	ND	ND	ND
m- & p-Xylenes	2.000	ND	ND	ND	ND



# AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

3520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9560

## ANALYTICAL RESULTS

Page: 25  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 8260B, Volatile Organic Compounds

Our Lab I.D.		139681	139682	139683	139684
Surrogates	Con. Limit	% Rec.	% Rec.	% Rec.	% Rec.
Surrogate Percent Recovery					
Bromofluorobenzene	70-120	117	114	112	116
Dibromofluoromethane	70-120	110	109	106	107
Toluene-d8	70-120	96	94	95	96

## QUALITY CONTROL REPORT

Batch No: 112404-2B

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	96	102	6.1	75-120	15					
Chlorobenzene	98	94	4.2	75-120	15					
1,1-Dichloroethene (1,1-Dichloroethylene)	82	82	<1	75-120	15					
MTBE	96	104	8.0	75-120	15					
Toluene (Methyl benzene)	96	103	7.0	75-120	15					
Trichloroethene (TCE)	92	94	2.2	75-120	15					





# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 26

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

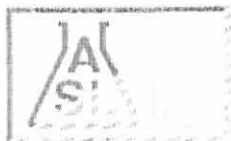
Client

ENVBUS

Method: 8270C, Semivolatile Organics

### Batch No:

Our Lab I.D.		139676	139677		
Sample ID		MBW5	MW10		
Date Sampled		11/22/2004	11/22/2004		
Date Extracted		11/24/2004	11/24/2004		
Preparation Method		3510C	3510C		
Date Analyzed		11/24/2004	11/24/2004		
Matrix		Water	Water		
Units		ug/L	ug/L		
Detection Limit Multiplier		1	1		
Analytes	PQL	Results	Results		
Acenaphthene	10.00	ND	ND		
Acenaphthylene	10.00	ND	ND		
Anthracene	10.00	ND	ND		
Benz(a)anthracene (Benzo(a)anthracene)	10.00	ND	ND		
Benzo(a)pyrene	10.00	ND	ND		
Benzo(b)fluoranthene	10.00	ND	ND		
Benzo(ghi)perylene	10.00	ND	ND		
Benzo(k)fluoranthene	10.00	ND	ND		
Benzoic acid	10.00	ND	ND		
Benzyl alcohol	10.00	ND	ND		
Bis(2-chloroethoxy)methane	10.00	ND	ND		
Bis(2-chloroethyl)ether	10.00	ND	ND		
Bis(2-chloroisopropyl) ether	10.00	ND	ND		
Bis(2-ethylhexyl) phthalate	10.00	ND	ND		
4-Bromophenyl phenyl ether	10.00	ND	ND		
Butyl benzyl phthalate (Benzyl butyl phthalate)	10.00	ND	ND		
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1.00	ND	ND		
4-Chloroaniline	10.00	ND	ND		
2-Chloronaphthalene	10.00	ND	ND		
2-Chlorophenol (o-Chlorophenol)	1.00	ND	ND		
4-Chlorophenyl phenyl ether	10.00	ND	ND		
Chrysene	10.00	ND	ND		
Di-n-butyl phthalate	10.00	ND	ND		
Di-n-octyl phthalate (Dioctyl ester)	10.00	ND	ND		
Dibenz(a,h)anthracene	10.00	ND	ND		
Dibenzofuran	10.00	ND	ND		
1,3-Dichlorobenzene (m-Dichlorobenzene)	10.00	ND	ND		



# AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9700

## ANALYTICAL RESULTS

Page: 27  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 8270C, Semivolatile Organics

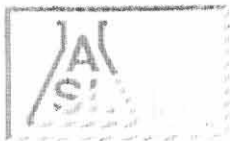
Batch No:

Our Lab I.D.		139676	139677			
Sample ID		MBW5	MW10			
Date Sampled		11/22/2004	11/22/2004			
Analytes	PQL	Results	Results			
1,2-Dichlorobenzene (o-Dichlorobenzene)	10.00	ND	ND			
1,4-Dichlorobenzene	10.00	ND	ND			
3,3'-Dichlorobenzidine	20.00	ND	ND			
2,4-Dichlorophenol	1.00	ND	ND			
Diethyl phthalate (Diethyl ester)	10.00	ND	ND			
2,4-Dimethylphenol	1.00	ND	ND			
Dimethyl phthalate (Dimethyl ester)	10.00	ND	ND			
2,4-Dinitrophenol	1.00	ND	ND			
2,4-Dinitrotoluene	10.00	ND	ND			
2,6-Dinitrotoluene (2,6-DNT)	10.00	ND	ND			
Fluoranthene	10.00	ND	ND			
Fluorene	10.00	ND	ND			
Hexachlorobenzene	10.00	ND	ND			
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	20.00	ND	ND			
Hexachlorocyclopentadiene	10.00	ND	ND			
Hexachloroethane	10.00	ND	ND			
Indeno(1,2,3-cd)pyrene	10.00	ND	ND			
Isophorone	10.00	ND	ND			
2-methyl-4,6-Dinitrophenol	1.00	ND	ND			
2-Methylnaphthalene	10.00	ND	ND			
2-Methylphenol (o-Cresol, 2-Cresol)	1.00	ND	ND			
4-Methylphenol (p-Cresol, 4-Cresol)	1.00	ND	ND			
N-Nitroso-Di-n-propylamine	10.00	ND	ND			
N-Nitrosodiphenylamine	10.00	ND	ND			
Naphthalene	10.00	ND	ND			
2-Nitroaniline	10.00	ND	ND			
3-Nitroaniline	10.00	ND	ND			
4-Nitroaniline	10.00	ND	ND			
Nitrobenzene (NB)	10.00	ND	ND			
2-Nitrophenol (o-Nitrophenol)	1.00	ND	ND			
4-Nitrophenol	1.000	ND	ND			
Pentachlorophenol	1.000	ND	ND			
Phenanthrene	10.00	ND	ND			
Phenol	1.00	ND	ND			
Pyrene	10.00	ND	ND			
1,2,4-Trichlorobenzene	10.00	ND	ND			
2,4,5-Trichlorophenol	1.00	ND	ND			
2,4,6-Trichlorophenol	1.00	ND	ND			

Comment(s):

Low surrogate recovery due to matrix effect.





# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

## ANALYTICAL RESULTS

Page: 28  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

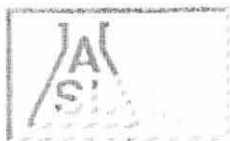
Method: 8270C, Semivolatile Organics

Our Lab ID.		139676	139677			
Surrogates	Con.Limit	% Rec.	% Rec.			
Surrogate Percent Recovery						
2-Fluorophenol	21-105	4	31			
Phenol-d6	10-107	5	35			
2,4,6-Tribromophenol	10-123	20	7			
Nitrobenzene-d5	35-114	62	29			
2-Fluorobiphenyl	33-116	63	26			
Terphenyl-d14	33-141	58	26			

## QUALITY CONTROL REPORT

Batch No:

	LCS	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD					
Analytes	% REC	% REC	% REC	% Limit	% Limit					
Acenaphthene	61	48	23.9	43-118	<30					
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	71	54	27.2	23-117	<30					
2-Chlorophenol (o-Chlorophenol)	51	41	21.7	27-113	<30					
1,4-Dichlorobenzene	57	44	25.7	36-105	<30					
2,4-Dinitrotoluene	44	34	25.6	24-120	<30					
N-Nitroso-Di-n-propylamine	111	87	24.2	41-116	<30					
4-Nitrophenol	44	45	2.2	10-133	<30					
Pentachlorophenol	44	45	2.2	9-118	<30					
Phenol	26	20	26.1	12-110	<30					
Pyrene	50	43	15.1	26-127	<30					
1,2,4-Trichlorobenzene	60	47	24.3	39-98	<30					



# AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 29

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

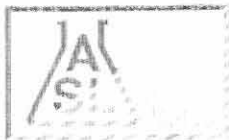
Client

ENVBUS

Method: 8270C, Semivolatile Organics

### Batch No:

Our Lab I.D.		139678			
Sample ID		SCS2			
Date Sampled		11/22/2004			
Date Extracted		11/29/2004			
Preparation Method		3510C			
Date Analyzed		11/29/2004			
Matrix		Water			
Units		ug/L			
Detection Limit Multiplier		1			
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>			
Acenaphthene	10.00	ND			
Acenaphthylene	10.00	ND			
Anthracene	10.00	ND			
Benz(a)anthracene (Benzo(a)anthracene)	10.00	ND			
Benzo(a)pyrene	10.00	ND			
Benzo(b)fluoranthene	10.00	ND			
Benzo(ghi)perylene	10.00	ND			
Benzo(k)fluoranthene	10.00	ND			
Benzoic acid	10.00	ND			
Benzyl alcohol	10.00	ND			
Bis(2-chloroethoxy)methane	10.00	ND			
Bis(2-chloroethyl)ether	10.00	ND			
Bis(2-chloroisopropyl) ether	10.00	ND			
Bis(2-ethylhexyl) phthalate	10.00	ND			
4-Bromophenyl phenyl ether	10.00	ND			
Butyl benzyl phthalate (Benzyl butyl phthalate)	10.00	ND			
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1.00	ND			
4-Chloroaniline	10.00	ND			
2-Chloronaphthalene	10.00	ND			
2-Chlorophenol (o-Chlorophenol)	1.00	ND			
4-Chlorophenyl phenyl ether	10.00	ND			
Chrysene	10.00	ND			
Di-n-butyl phthalate	10.00	ND			
Di-n-octyl phthalate (Diocetyl ester)	10.00	ND			
Dibenz(a,h)anthracene	10.00	ND			
Dibenzofuran	10.00	ND			
1,3-Dichlorobenzene (m-Dichlorobenzene)	10.00	ND			



# AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9706 Fax: (323) 223-9500

## ANALYTICAL RESULTS

Page: 30  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

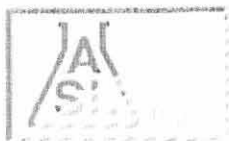
Method: 8270C, Semivolatile Organics

Batch No:

Our Lab I.D.		139678			
Sample ID		SCS2			
Date Sampled		11/22/2004			
Analytes	PQL	Results			
1,2-Dichlorobenzene (o-Dichlorobenzene)	10.00	ND			
1,4-Dichlorobenzene	10.00	ND			
3,3'-Dichlorobenzidine	20.00	ND			
2,4-Dichlorophenol	1.00	ND			
Diethyl phthalate (Diethyl ester)	10.00	ND			
2,4-Dimethylphenol	1.00	ND			
Dimethyl phthalate (Dimethyl ester)	10.00	ND			
2,4-Dinitrophenol	1.00	ND			
2,4-Dinitrotoluene	10.00	ND			
2,6-Dinitrotoluene (2,6-DNT)	10.00	ND			
Fluoranthene	10.00	ND			
Fluorene	10.00	ND			
Hexachlorobenzene	10.00	ND			
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	20.00	ND			
Hexachlorocyclopentadiene	10.00	ND			
Hexachloroethane	10.00	ND			
Indeno(1,2,3-cd)pyrene	10.00	ND			
Isophorone	10.00	ND			
2-methyl-4,6-Dinitrophenol	1.00	ND			
2-Methylnaphthalene	10.00	ND			
2-Methylphenol (o-Cresol, 2-Cresol)	1.00	ND			
4-Methylphenol (p-Cresol, 4-Cresol)	1.00	ND			
N-Nitroso-Di-n-propylamine	10.00	ND			
N-Nitrosodiphenylamine	10.00	ND			
Naphthalene	10.00	ND			
2-Nitroaniline	10.00	ND			
3-Nitroaniline	10.00	ND			
4-Nitroaniline	10.00	ND			
Nitrobenzene (NB)	10.00	ND			
2-Nitrophenol (o-Nitrophenol)	1.00	ND			
4-Nitrophenol	1.000	ND			
Pentachlorophenol	1.000	ND			
Phenanthrene	10.00	ND			
Phenol	1.00	ND			
Pyrene	10.00	ND			
1,2,4-Trichlorobenzene	10.00	ND			
2,4,5-Trichlorophenol	1.00	ND			
2,4,6-Trichlorophenol	1.00	ND			

Comment(s):

Low surrogate recovery due to matrix effect.



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

3520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 228-0700 Fax: (323) 222-9800

## ANALYTICAL RESULTS

Page: 31  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

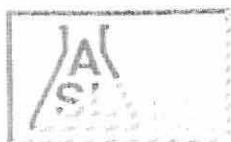
Method: 8270C, Semivolatile Organics

Our Lab I.D.	139678				
Surrogates	Con. Limit	% Rec.			
Surrogate Percent Recovery					
2-Fluorophenol	21-105	30			
Phenol-d6	10-107	39			
2,4,6-Tribromophenol	10-123	31			
Nitrobenzene-d5	35-114	20			
2-Fluorobiphenyl	33-116	26			
Terphenyl-d14	33-141	16			

## QUALITY CONTROL REPORT

Batch No:

	LCS	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD					
Analytes	% REC	% REC	% REC	% Limit	% Limit					
Acenaphthene	61	49	21.8	43-118	<30					
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	69	54	24.4	23-117	<30					
2-Chlorophenol (o-Chlorophenol)	50	42	17.4	27-113	<30					
1,4-Dichlorobenzene	56	45	21.8	36-105	<30					
2,4-Dinitrotoluene	44	35	22.8	24-120	<30					
N-Nitroso-Di-n-propylamine	111	87	24.2	41-116	<30					
4-Nitrophenol	15	16	6.5	10-133	<30					
Pentachlorophenol	46	46	<1	9-118	<30					
Phenol	26	20	26.1	12-110	<30					
Pyrene	50	43	15.1	26-127	<30					
1,2,4-Trichlorobenzene	60	48	22.2	39-98	<30					



# AMERICAN SCIENTIFIC LABORATORIES, LLC

## Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (818) 223-9700 Fax: (818) 223-9800

### ANALYTICAL RESULTS

#### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

#### Site

Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 32

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 8270C, Semivolatile Organics

#### Batch No:

Our Lab I.D.		139679	139680	139681	139682	139683
Sample ID		SCS1	SCS4	MBW3	MBE4	MBE6
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Date Extracted		11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004
Preparation Method		3510C	3510C	3510C	3510C	3510C
Date Analyzed		11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004
Matrix		Water	Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		5	5	5	5	5
Analytes	PQL	Results	Results	Results	Results	Results
Acenaphthene	50	ND	ND	ND	ND	ND
Acenaphthylene	50	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND
Benz(a)anthracene (Benzo(a)anthracene)	50	ND	ND	ND	ND	ND
Benzo(a)pyrene	50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	50	ND	ND	ND	ND	ND
Benzo(ghi)perylene	50	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	50	ND	ND	ND	ND	ND
Benzoic acid	50	ND	ND	ND	ND	ND
Benzyl alcohol	50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	50	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	50	ND	ND	ND	ND	ND
Butyl benzyl phthalate (Benzyl butyl phthalate)	50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	5	ND	ND	ND	ND	ND
4-Chloroaniline	50	ND	ND	ND	ND	ND
2-Chloronaphthalene	50	ND	ND	ND	ND	ND
2-Chlorophenol (o-Chlorophenol)	5	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	50	ND	ND	ND	ND	ND
Chrysene	50	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND
Di-n-octyl phthalate (Dioctyl ester)	50	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	50	ND	ND	ND	ND	ND
Dibenzofuran	50	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	50	ND	ND	ND	ND	ND



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9200 Fax: (323) 223-9500

## ANALYTICAL RESULTS

Page: **33**  
 Project ID: 01203520.00  
 Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

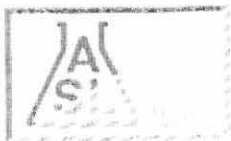
Method: 8270C, Semivolatile Organics

Batch No:

Our Lab I.D.		139679	139680	139681	139682	139683
Sample ID		SCS1	SCS4	MBW3	MBE4	MBE6
Date Sampled		11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Analytes	PQL	Results	Results	Results	Results	Results
1,2-Dichlorobenzene (o-Dichlorobenzene)	50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	100	ND	ND	ND	ND	ND
2,4-Dichlorophenol	5	ND	ND	ND	ND	ND
Diethyl phthalate (Diethyl ester)	50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	5	ND	ND	ND	ND	ND
Dimethyl phthalate (Dimethyl ester)	50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	5	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2,6-DNT)	50	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND
Hexachlorobenzene	50	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	100	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	50	ND	ND	ND	ND	ND
Hexachloroethane	50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	50	ND	ND	ND	ND	ND
Isophorone	50	ND	ND	ND	ND	ND
2-methyl-4,6-Dinitrophenol	5	ND	ND	ND	ND	ND
2-Methylnaphthalene	50	ND	ND	ND	ND	ND
2-Methylphenol (o-Cresol, 2-Cresol)	5	ND	ND	ND	ND	ND
4-Methylphenol (p-Cresol, 4-Cresol)	5	ND	ND	ND	ND	ND
N-Nitroso-Di-n-propylamine	50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50	ND	ND	ND	ND	ND
Naphthalene	50	ND	ND	ND	ND	ND
2-Nitroaniline	50	ND	ND	ND	ND	ND
3-Nitroaniline	50	ND	ND	ND	ND	ND
4-Nitroaniline	50	ND	ND	ND	ND	ND
Nitrobenzene (NB)	50	ND	ND	ND	ND	ND
2-Nitrophenol (o-Nitrophenol)	5	ND	ND	ND	ND	ND
4-Nitrophenol	5	ND	ND	ND	ND	ND
Pentachlorophenol	5	ND	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND	ND
Phenol	5	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	5	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	5	ND	ND	ND	ND	ND

Comment(s):

High PQLs & Low surrogate recovery due to matrix effect.



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2820 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

## ANALYTICAL RESULTS

Page: 34  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 8270C, Semivolatile Organics

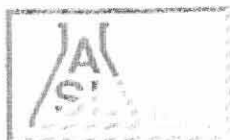
Our Lab I.D.		139679	139680	139681	139682	139683
Surrogates	Con.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Surrogate Percent Recovery						
2-Fluorophenol	21-105	47	59	45	11	39
Phenol-d6	10-107	69	75	56	5	52
2,4,6-Tribromophenol	10-123	71	68	55	43	62
Nitrobenzene-d5	35-114	49	69	54	45	62
2-Fluorobiphenyl	33-116	57	78	57	52	71
Terphenyl-d14	33-141	65	68	59	58	68

## QUALITY CONTROL REPORT

Batch No:

	LCS	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD					
Analytes	% REC	% REC	% REC	% Limit	% Limit					
Acenaphthene	61	49	21.8	43-118	<30					
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	69	54	24.4	23-117	<30					
2-Chlorophenol (o-Chlorophenol)	50	42	17.4	27-113	<30					
1,4-Dichlorobenzene	56	45	21.8	36-105	<30					
2,4-Dinitrotoluene	44	35	22.8	24-120	<30					
N-Nitroso-Di-n-propylamine	111	87	24.2	41-116	<30					
4-Nitrophenol	15	16	6.5	10-133	<30					
Pentachlorophenol	46	46	<1	9-118	<30					
Phenol	26	20	26.1	12-110	<30					
Pyrene	50	43	15.1	26-127	<30					
1,2,4-Trichlorobenzene	60	48	22.2	39-98	<30					





# AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (213) 223-9700 Fax: (213) 223-9200

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr.  
South Shores

Telephone: (858) 571-5500

Attn: Keith Etchells

Page: 35

Project ID: 01203520.00

Project Name: MBLF

Job Number

23889

Order Date

11/23/2004

Client

ENVBUS

Method: 8270C, Semivolatile Organics

### Batch No:

Our Lab I.D.

Sample ID

Date Sampled

Date Extracted

Preparation Method

Date Analyzed

Matrix

Units

Detection Limit Multiplier

Analytes

PQL

Results

Acenaphthene

Acenaphthylene

Anthracene

Benz(a)anthracene (Benzo(a)anthracene)

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(ghi)perylene

Benzo(k)fluoranthene

Benzoic acid

Benzyl alcohol

Bis(2-chloroethoxy)methane

Bis(2-chloroethyl)ether

Bis(2-chloroisopropyl) ether

Bis(2-ethylhexyl) phthalate

4-Bromophenyl phenyl ether

Butyl benzyl phthalate (Benzyl butyl phthalate)

4-Chloro-3-methylphenol (p-Chloro-m-cresol)

4-Chloroaniline

2-Chloronaphthalene

2-Chlorophenol (o-Chlorophenol)

4-Chlorophenyl phenyl ether

Chrysene

Di-n-butyl phthalate

Di-n-octyl phthalate (Dioctyl ester)

Dibenz(a,h)anthracene

Dibenzofuran

1,3-Dichlorobenzene (m-Dichlorobenzene)

139684

SCS3

11/22/2004

11/29/2004

3510C

11/29/2004

Water

ug/L

5

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

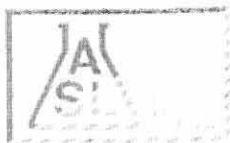
ND

ND

ND

ND





# AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

3520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9800

## ANALYTICAL RESULTS

Page: 36  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

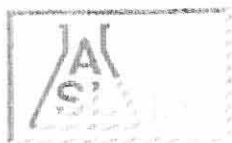
Method: 8270C, Semivolatile Organics

Batch No:

Our Lab I.D.		139684				
Sample ID		SCS3				
Date Sampled		11/22/2004				
Analytes	PQL	Results				
1,2-Dichlorobenzene (o-Dichlorobenzene)	50	ND				
1,4-Dichlorobenzene	50	ND				
3,3'-Dichlorobenzidine	100	ND				
2,4-Dichlorophenol	5	ND				
Diethyl phthalate (Diethyl ester)	50	ND				
2,4-Dimethylphenol	5	ND				
Dimethyl phthalate (Dimethyl ester)	50	ND				
2,4-Dinitrophenol	5	ND				
2,4-Dinitrotoluene	50	ND				
2,6-Dinitrotoluene (2,6-DNT)	50	ND				
Fluoranthene	50	ND				
Fluorene	50	ND				
Hexachlorobenzene	50	ND				
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	100	ND				
Hexachlorocyclopentadiene	50	ND				
Hexachloroethane	50	ND				
Indeno(1,2,3-cd)pyrene	50	ND				
Isophorone	50	ND				
2-methyl-4,6-Dinitrophenol	5	ND				
2-Methylnaphthalene	50	ND				
2-Methylphenol (o-Cresol, 2-Cresol)	5	ND				
4-Methylphenol (p-Cresol, 4-Cresol)	5	ND				
N-Nitroso-Di-n-propylamine	50	ND				
N-Nitrosodiphenylamine	50	ND				
Naphthalene	50	ND				
2-Nitroaniline	50	ND				
3-Nitroaniline	50	ND				
4-Nitroaniline	50	ND				
Nitrobenzene (NB)	50	ND				
2-Nitrophenol (o-Nitrophenol)	5	ND				
4-Nitrophenol	5	ND				
Pentachlorophenol	5	ND				
Phenanthrene	50	ND				
Phenol	5	ND				
Pyrene	50	ND				
1,2,4-Trichlorobenzene	50	ND				
2,4,5-Trichlorophenol	5	ND				
2,4,6-Trichlorophenol	5	ND				

Comment(s):

High PQLs & Low Surrogate Recovery due to matrix.



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (823) 223-0700 Fax: (823) 223-9500

## ANALYTICAL RESULTS

Page: 37  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23889	11/23/2004	ENVBUS

Method: 8270C, Semivolatile Organics

Our Lab I.D.	139684				
Surrogates	Con.Limit	% Rec.			
Surrogate Percent Recovery					
2-Fluorophenol	21-105	10			
Phenol-d6	10-107	8			
2,4,6-Tribromophenol	10-123	49			
Nitrobenzene-d5	35-114	53			
2-Fluorobiphenyl	33-116	64			
Terphenyl-d14	33-141	62			

## QUALITY CONTROL REPORT

Batch No:

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
Acenaphthene	61	49	21.8	43-118	<30					
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	69	54	24.4	23-117	<30					
2-Chlorophenol (o-Chlorophenol)	50	42	17.4	27-113	<30					
1,4-Dichlorobenzene	56	45	21.8	36-105	<30					
2,4-Dinitrotoluene	44	35	22.8	24-120	<30					
N-Nitroso-Di-n-propylamine	111	87	24.2	41-116	<30					
4-Nitrophenol	15	16	6.5	10-133	<30					
Pentachlorophenol	46	46	<1	9-118	<30					
Phenol	26	20	26.1	12-110	<30					
Pyrene	50	43	15.1	26-127	<30					
1,2,4-Trichlorobenzene	60	48	22.2	39-98	<30					



AMERICAN SCIENTIFIC LABORATORIES, LLC  
Environmental Testing Services  
2520 N. San Fernando Road, L.A. CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

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DEC 09 2004

EBS

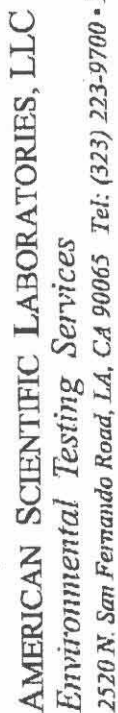
COC# N° 29907 GLOBAL ID \_\_\_\_\_ EDD ASL JOB# 23889

C H A I N O F C U S T O D Y R E C O R D

Company: ENVIRONMENTAL BUSINESS SOLUTIONS				Report To: KETH ETCHELS		ANALYSIS REQUESTED	
Address: 8749 Balboa Ave., #290				Address:		PH/Alkalinity/Chloride	
San Diego, CA 92123				Invoice To: KETH ETCHELS		Fluoride Cr (F19)	
Telephone: 858-571-5500				Address:		Headspace (B7H)	
Fax: " " 5357						SVOCs (B7C)	
Special Instruction: Please extract for Cr6+				Project ID: 01263520.00		SVOCs (B7C)	
immediately upon arrival.				Project Manager: KETH ETCHELS		P.O.#:	
SAMPLE DESCRIPTION				Container(s)		Matrix	
LAB USE ONLY				Type		Preservation	
Lab ID				#		Remarks	
1	139676	MBW5	11/22/04	0810	5 IL FUSIC SVOCs	WATER	NONE
2	139677	MW10		0910	5		
3	139678	SL5Z		0956	5		
4	139679	SL51		1055	5		
5	139680	SL54		1210	5		
6	139681	MBWZ		1310	5		
7	139682	MBE4		1355	5		
8	139683	MBE6		1455	5		
9	139684	SL53		1555	5		

Collected By: KETH ETCHELS	Date: 11/22/04	Time: 1620	Relinquished By: Keth Etchels	Date: 11/22/04	Time: 1700
Relinquished By:	Date: 11/23/04	Time: 845	Received For Laboratory: Janet Chan	Date: 11/23/04	Time: 845
Condition of Sample:					

TAT ☒ Normal ☐ Rush



095 FRI 10:24 AM EBS

C H A - N O F C U S T O D Y R E C O R D

ELECTRONIC REPORT: ☐ EDF ☐ EDD ASL JOB#

Company: ENVIRONMENTAL BUSINESS SOLUTIONS						Report To: KETH ETHELUS		ANALYSIS REQUESTED	
Address: 8749 Ballou Ave., #290 San Diego CA 92123 Telephone: 858-571-5500 Fax: " 5357		Project Name: MBLF		Site Address: 500 World Dr. 3 South Shores		Invoice To: KETH ETHELUS		PH/Alkalinity/Chloride Fluoride Heavy Metals (P) SVOCs (BZLF) VOCs (BZLF)	
Special Instruction: Please extract for Cr-Gt.		Project ID: 01263520.00		Project Manager: KETH ETHELUS		P.O.#:			
SAMPLE DESCRIPTION				Container(s)		Matrix	Preservation	Remarks	
LAB USE ONLY	Sample ID	Date	Time	#	Type				
I		MBW5	11/22/04	0810	5	1L PLASTIC SVCS	WATER	NONE	
T		MW10		0910	5				
E		SL52		0950	5				
M		SL51		1055	5				
		SL54		1210	5				
		<del>MBW3</del> → MBWZ <sup>RE-12105</sup>		1310	5				
		MBE4		1355	5				
		MBE6		1455	5				
		SL53		1555	5				

Collected By: KETH ETHELUS Date: 11/22/04 Time: 1620

Relinquished By: [Signature] Date: 11/22/04 Time: 1700

Condition of Sample:

Received For Laboratory

TAT Normal ☒ Rush ☐

White - Report, Yellow - Laboratory, Pink - Client



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**Ordered By**

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

**Number of Pages** 16

**Date Received** 11/24/2004

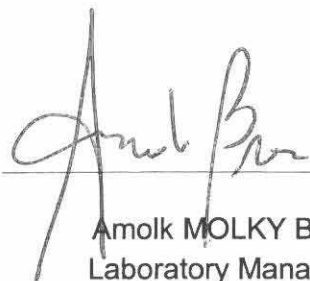
**Date Reported** 12/06/2004


**Telephone** (858) 571-5500  
**Attn** Keith Etchells

Job Number	Ordered	Client
23908	11/24/2004	ENVBUS

**Project ID:** 01203520.00  
**Project Name:** MBLF  
**Site:** Sea World Dr. & South Shores

Enclosed are the results of analyses on 4 samples analyzed as specified on attached chain of custody.

  
Amolk MOLKY Brar  
Laboratory Manager

  
Rojert G. Araghi  
Laboratory Director

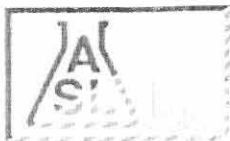
**RECEIVED**

DEC 09 2004

**EBS**  
**SCS Engineers Co**

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9590

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 2

Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

Client

ENVBUS

Method: 120.1, Specific Conductance

### Batch No:

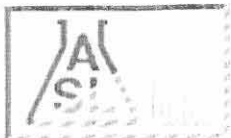
Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		12/01/2004	12/01/2004	12/01/2004	12/01/2004	
Preparation Method						
Date Analyzed		12/01/2004	12/01/2004	12/01/2004	12/01/2004	
Matrix		Water	Water	Water	Water	
Units		umhos/cm	umhos/cm	umhos/cm	umhos/cm	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventional						
Conductivity (umho/cm @77F)	1.00	59,500	69,000	54,700	52,600	

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventional									
Conductivity (umho/cm @77F)	115	80-120							





# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9200 Fax: (323) 223-9500

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 3

Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

Client

ENVBUS

Method: 130.2, Hardness, Total (mg/L as CaCO<sub>3</sub>)

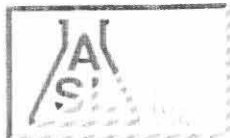
### Batch No:

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/29/2004	11/29/2004	11/29/2004	11/29/2004	
Preparation Method						
Date Analyzed		11/29/2004	11/29/2004	11/29/2004	11/29/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	
<b>Conventionals</b>						
Hardness (Ca,Mg) as CaCO <sub>3</sub>	10	5,500	6,800	6,000	4,800	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
<b>Conventionals</b>									
Hardness (Ca,Mg) as CaCO <sub>3</sub>	90	80-120							



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2570 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9700

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 4

Project ID: 01203520.00

Project Name: MBLF

Job Number	Order Date	Client
23908	11/24/2004	ENVBUS

Method: 150.1, pH

### Batch No:

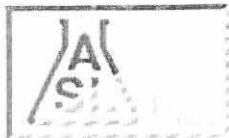
Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Matrix		Water	Water	Water	Water	
Units		pH Units	pH Units	pH Units	pH Units	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
pH	1.00	6.87	6.78	7.95	7.72	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
pH	100	80-120							





# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9800

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 5

Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

Client

ENVBUS

Method: 160.1, Total Dissolved Solids (TDS)

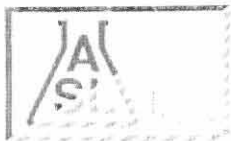
### Batch No:

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/29/2004	11/29/2004	11/29/2004	11/29/2004	
Preparation Method						
Date Analyzed		11/29/2004	11/29/2004	11/29/2004	11/29/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	
<b>Conventionals</b>						
Solids, Total Dissolved (TDS)	10	38,700	42,000	36,000	31,600	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
<b>Conventionals</b>									
Solids, Total Dissolved (TDS)	95	80-120							



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

Client

ENVBUS

Method: 300, Chloride by Ion Chromatography

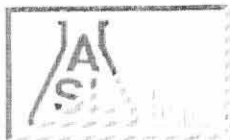
### Batch No:

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
Chloride	1.000	21,700	25,000	20,600	19,500	

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Chloride	115	80-120							



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

Client

ENVBUS

Method: 300, Flouride by Ion Chromatography

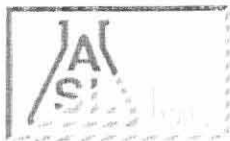
### Batch No:

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
Fluoride	0.100	0.89	0.65	0.20	0.57	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Fluoride	114	80-120							



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## ANALYTICAL RESULTS

### Ordered By

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San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

Client

ENVBUS

Method: 300, Anions by Ion Chromatography

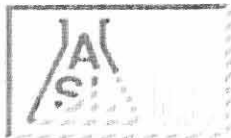
### Batch No:

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
Nitrate as N	0.100	ND	ND	ND	ND	
Sulfate	1.00	35.5	910	2790	2630	

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Nitrate as N	111	80-120							
Sulfate	114	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
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San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

**Job Number**

23908

**Order Date**

11/24/2004

**Client**

ENVBUS

Method: 310.1, Alkalinity

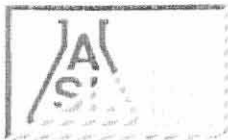
### Batch No:

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/30/2004	11/30/2004	11/30/2004	11/30/2004	
Preparation Method						
Date Analyzed		11/30/2004	11/30/2004	11/30/2004	11/30/2004	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
Alkalinity, Total	10	3500	2100	210	150	
Bicarbonate	10	3500	2100	170	150	
Carbonate	10	ND	ND	40	ND	
Hydroxide	10	ND	ND	ND	ND	

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Alkalinity, Total	100	80-120							



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## ANALYTICAL RESULTS

### Ordered By

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San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

Client

ENVBUS

Method: 7199, Hexavalent Chromium by Ion Chromatography

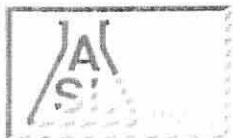
### Batch No:

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Date Extracted		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Preparation Method						
Date Analyzed		11/24/2004	11/24/2004	11/24/2004	11/24/2004	
Matrix		Water	Water	Water	Water	
Units		ug/L	ug/L	ug/L	ug/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Conventionals						
Chromium (VI)	1.000	ND	ND	ND	ND	

## QUALITY CONTROL REPORT

### Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Chromium (VI)	105	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

Job Number

23908

Order Date

11/24/2004

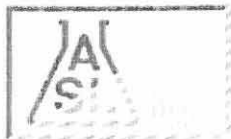
Client

ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 113004-1C

Our Lab I.D.		139744	139745	139746	139747
Sample ID		MBW 2	MBW 1	DP 1	DP 2
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004
Date Extracted		11/30/2004	11/30/2004	11/30/2004	11/30/2004
Preparation Method					
Date Analyzed		11/30/2004	11/30/2004	11/30/2004	11/30/2004
Matrix		Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Acetone	5.00	ND	ND	ND	ND
Benzene	1.000	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	1.000	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	1.000	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	1.000	ND	ND	ND	ND
Bromoform (Tribromomethane)	5.000	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.000	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	5.00	ND	ND	ND	ND
n-Butylbenzene	1.000	ND	ND	ND	ND
sec-Butylbenzene	1.000	ND	ND	ND	ND
tert-Butylbenzene	1.000	ND	ND	ND	ND
Carbon disulfide	1.000	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	1.000	ND	ND	ND	ND
Chlorobenzene	1.000	ND	ND	ND	ND
Chloroethane	3.000	ND	ND	ND	ND
2-Chloroethyl vinyl ether	5.000	ND	ND	ND	ND
Chloroform (Trichloromethane)	1.000	ND	ND	ND	ND
Chloromethane (Methyl chloride)	3.000	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	1.000	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	1.000	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	5.000	ND	ND	ND	ND
Dibromochloromethane	1.000	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	1.000	ND	ND	ND	ND
Dibromomethane	1.000	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	1.000	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	1.000	ND	ND	ND	ND



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*Environmental Testing Services*

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## ANALYTICAL RESULTS

Page: 12  
Project ID: 01203520.00  
Project Name: MBLF

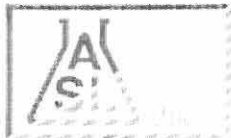
Job Number	Order Date	Client
23908	11/24/2004	ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 113004-1C

Our Lab I.D.		139744	139745	139746	139747	
Sample ID		MBW 2	MBW 1	DP 1	DP 2	
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Analytes	PQL	Results	Results	Results	Results	
1,4-Dichlorobenzene (p-Dichlorobenzene)	1.000	ND	ND	ND	ND	
Dichlorodifluoromethane	3.000	ND	ND	ND	ND	
1,1-Dichloroethane	1.000	ND	ND	ND	ND	
1,2-Dichloroethane	1.000	ND	ND	ND	ND	
1,1-Dichloroethene (1,1-Dichloroethylene)	1.000	ND	ND	ND	ND	
cis-1,2-Dichloroethene	1.000	ND	ND	ND	ND	
trans-1,2-Dichloroethene	1.000	ND	ND	ND	ND	
1,2-Dichloropropane	1.000	ND	ND	ND	ND	
1,3-Dichloropropane	1.000	ND	ND	ND	ND	
2,2-Dichloropropane	1.000	ND	ND	ND	ND	
1,1-Dichloropropene	1.000	ND	ND	ND	ND	
cis-1,3-Dichloropropene	1.000	ND	ND	ND	ND	
trans-1,3-Dichloropropene	1.000	ND	ND	ND	ND	
Ethylbenzene	1.000	ND	ND	ND	ND	
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	3.000	ND	ND	ND	ND	
2-Hexanone	5.000	ND	ND	ND	ND	
Isopropylbenzene	1.000	ND	ND	ND	ND	
p-Isopropyltoluene (4-Isopropyltoluene)	1.000	ND	ND	ND	ND	
MTBE	2.000	ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	5.00	ND	ND	ND	ND	
Methylene chloride (Dichloromethane, DCM)	5.00	ND	ND	ND	ND	
Naphthalene	1.000	ND	ND	ND	ND	
n-Propylbenzene	1.000	ND	ND	ND	ND	
Styrene	1.000	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	1.000	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	1.000	ND	ND	ND	ND	
Tetrachloroethene (Tetrachloroethylene)	1.000	ND	ND	ND	ND	
Toluene (Methyl benzene)	1.000	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	1.000	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	1.000	ND	ND	ND	ND	
1,1,1-Trichloroethane	1.000	ND	ND	ND	ND	
1,1,2-Trichloroethane	1.000	ND	ND	ND	ND	
Trichloroethene (TCE)	1.000	ND	ND	ND	ND	
Trichlorofluoromethane	1.000	ND	ND	ND	ND	
1,2,3-Trichloropropane	1.000	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	1.000	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	1.000	ND	ND	ND	ND	
Vinyl acetate	5.00	ND	ND	ND	ND	
Vinyl chloride (Chloroethene)	3.000	ND	ND	ND	ND	
o-Xylene	1.000	ND	ND	ND	ND	
m- & p-Xylenes	2.000	ND	ND	ND	ND	





# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

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## ANALYTICAL RESULTS

Page: 13  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23908	11/24/2004	ENVBUS

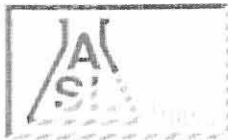
Method: 8260B, Volatile Organic Compounds

Our Lab I.D.		139744	139745	139746	139747	
Surrogates	Con.Limit	% Rec.	% Rec.	% Rec.	% Rec.	
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	102	103	102	101	
Dibromofluoromethane	70-120	109	111	111	110	
Toluene-d8	70-120	100	98	98	98	

## QUALITY CONTROL REPORT

Batch No: 113004-1C

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	91	90	1.1	75-120	15					
Chlorobenzene	98	95	3.1	75-120	15					
1,1-Dichloroethene (1,1-Dichloroethylene)	107	100	6.8	75-120	15					
MTBE	85	87	2.3	75-120	15					
Toluene (Methyl benzene)	91	87	4.5	75-120	15					
Trichloroethene (TCE)	104	103	<1	75-120	15					



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*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

Sea World Dr. & South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

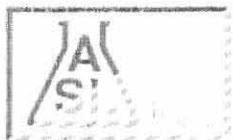
Project Name: MBLF

Job Number	Order Date	Client
23908	11/24/2004	ENVBUS

Method: 8270C, Semivolatile Organics

### Batch No:

Our Lab I.D.		139744	139745	139746	139747
Sample ID		MBW 2	MBW 1	DP 1	DP 2
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004
Date Extracted		11/30/2004	11/30/2004	11/30/2004	11/30/2004
Preparation Method					
Date Analyzed		11/30/2004	11/30/2004	11/30/2004	11/30/2004
Matrix		Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Acenaphthene	10.00	ND	ND	ND	ND
Acenaphthylene	10.00	ND	ND	ND	ND
Anthracene	10.00	ND	ND	ND	ND
Benz(a)anthracene (Benzo(a)anthracene)	10.00	ND	ND	ND	ND
Benzo(a)pyrene	10.00	ND	ND	ND	ND
Benzo(b)fluoranthene	10.00	ND	ND	ND	ND
Benzo(ghi)perylene	10.00	ND	ND	ND	ND
Benzo(k)fluoranthene	10.00	ND	ND	ND	ND
Benzoic acid	10.00	ND	ND	ND	ND
Benzyl alcohol	10.00	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	10.00	ND	ND	ND	ND
Bis(2-chloroethyl)ether	10.00	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	10.00	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	10.00	ND	ND	ND	ND
4-Bromophenyl phenyl ether	10.00	ND	ND	ND	ND
Butyl benzyl phthalate (Benzyl butyl phthalate)	10.00	ND	ND	ND	ND
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1.00	ND	ND	ND	ND
4-Chloroaniline	10.00	ND	ND	ND	ND
2-Chloronaphthalene	10.00	ND	ND	ND	ND
2-Chlorophenol (o-Chlorophenol)	1.00	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	10.00	ND	ND	ND	ND
Chrysene	10.00	ND	ND	ND	ND
Di-n-butyl phthalate	10.00	ND	ND	ND	ND
Di-n-octyl phthalate (Dioctyl ester)	10.00	ND	ND	ND	ND
Dibenz(a,h)anthracene	10.00	ND	ND	ND	ND
Dibenzofuran	10.00	ND	ND	ND	ND



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## ANALYTICAL RESULTS

Page: 15  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23908	11/24/2004	ENVBUS

Method: 8270C, Semivolatile Organics

Batch No:

Our Lab I.D.		139744	139745	139746	139747
Sample ID		MBW 2	MBW 1	DP 1	DP 2
Date Sampled		11/23/2004	11/23/2004	11/23/2004	11/23/2004
Analytes	PQL	Results	Results	Results	Results
1,3-Dichlorobenzene (m-Dichlorobenzene)	10.00	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	10.00	ND	ND	ND	ND
1,4-Dichlorobenzene	10.00	ND	ND	ND	ND
3,3'-Dichlorobenzidine	20.00	ND	ND	ND	ND
2,4-Dichlorophenol	1.00	ND	ND	ND	ND
Diethyl phthalate (Diethyl ester)	10.00	ND	ND	ND	ND
2,4-Dimethylphenol	1.00	ND	ND	ND	ND
Dimethyl phthalate (Dimethyl ester)	10.00	ND	ND	ND	ND
2,4-Dinitrophenol	1.00	ND	ND	ND	ND
2,4-Dinitrotoluene	10.00	ND	ND	ND	ND
2,6-Dinitrotoluene (2,6-DNT)	10.00	ND	ND	ND	ND
Fluoranthene	10.00	ND	ND	ND	ND
Fluorene	10.00	ND	ND	ND	ND
Hexachlorobenzene	10.00	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	20.00	ND	ND	ND	ND
Hexachlorocyclopentadiene	10.00	ND	ND	ND	ND
Hexachloroethane	10.00	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	10.00	ND	ND	ND	ND
Isophorone	10.00	ND	ND	ND	ND
2-methyl-4,6-Dinitrophenol	1.00	ND	ND	ND	ND
2-Methylnaphthalene	10.00	ND	ND	ND	ND
2-Methylphenol (o-Cresol, 2-Cresol)	1.00	ND	ND	ND	ND
4-Methylphenol (p-Cresol, 4-Cresol)	1.00	ND	ND	ND	ND
N-Nitroso-Di-n-propylamine	10.00	ND	ND	ND	ND
N-Nitrosodiphenylamine	10.00	ND	ND	ND	ND
Naphthalene	10.00	ND	ND	ND	ND
2-Nitroaniline	10.00	ND	ND	ND	ND
3-Nitroaniline	10.00	ND	ND	ND	ND
4-Nitroaniline	10.00	ND	ND	ND	ND
Nitrobenzene (NB)	10.00	ND	ND	ND	ND
2-Nitrophenol (o-Nitrophenol)	1.00	ND	ND	ND	ND
4-Nitrophenol	1.000	ND	ND	ND	ND
Pentachlorophenol	1.000	ND	ND	ND	ND
Phenanthrene	10.00	ND	ND	ND	ND
Phenol	1.00	ND	ND	ND	ND
Pyrene	10.00	ND	ND	ND	ND
1,2,4-Trichlorobenzene	10.00	ND	ND	ND	ND
2,4,5-Trichlorophenol	1.00	ND	ND	ND	ND
2,4,6-Trichlorophenol	1.00	ND	ND	ND	ND



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*Environmental Testing Services*

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## ANALYTICAL RESULTS

Page: 16  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
23908	11/24/2004	ENVBUS

Method: 8270C, Semivolatile Organics

Our Lab I.D.		139744	139745	139746	139747
Surrogates	Con. Limit	% Rec.	% Rec.	% Rec.	% Rec.
Surrogate Percent Recovery					
2-Fluorophenol	21-105	44	51	42	44
Phenol-d6	10-107	49	58	47	46
2,4,6-Tribromophenol	10-123	78	70	59	71
Nitrobenzene-d5	35-114	62	59	56	56
2-Fluorobiphenyl	33-116	74	65	61	66
Terphenyl-d14	33-141	65	64	58	60

## QUALITY CONTROL REPORT

Batch No:

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
Acenaphthene	61	48	23.9	43-118	<30				
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	67	54	21.5	23-117	<30				
2-Chlorophenol (o-Chlorophenol)	51	41	21.7	27-113	<30				
1,4-Dichlorobenzene	56	44	24.0	36-105	<30				
2,4-Dinitrotoluene	44	34	25.6	24-120	<30				
N-Nitroso-Di-n-propylamine	108	85	23.8	41-116	<30				
4-Nitrophenol	19	16	17.1	10-133	<30				
Pentachlorophenol	45	45	<1	9-118	<30				
Phenol	27	20	29.8	12-110	<30				
Pyrene	50	43	15.1	26-127	<30				
1,2,4-Trichlorobenzene	59	46	24.8	39-98	<30				



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COC# N<sup>o</sup> 29910 GLOBAL ID \_\_\_\_\_ ELECTRONIC REPORT: ☐ EDF ☐ EDD ASL JOB# 23908

Company: Environmental Business Solutions				Report To: Keith Etchells		ANALYSIS REQUESTED	
Address: 8799 Balboa Ave 290 MBLF				Address:			
Site Address: San Diego CA 92123 60 W. Adair St				Invoice To:			
Telephone: 658-571-5500				Address:			
Fax: " 5357							
Special Instruction: Hasselback for Cr <sup>6+</sup>				Project ID: 01203570.00			
upon arrival to lab.				Project Manager: Keith Etchells		P.O.#:	
SAMPLE DESCRIPTION				Container(s)			
LAB USE ONLY		Sample ID		Date		Time	
Lab ID		Sample ID		Date		Time	
139744	MBWZ	11/23/04	0845	5	1 L Glass	WATER	NONE
139745	MBW1	11/23/04	1000	5	1 L Glass	WATER	NONE
139746	DP1	11/23/04	1325	5	1 L Glass	↓	↓
139747	DPZ	11/23/04	1411	5	↓	↓	↓
RECEIVED							
DEC 09 2004							
SOS Engineers Co							
Collected By: KATH ETHELLES				Date: 11/23/04		Time	
Relinquished By:				Date		Time	
Condition of Sample:				Date		Time	

Relinquished By: Keith Etchells

Received For Laboratory: Keith Chen

Date: 11-24-04

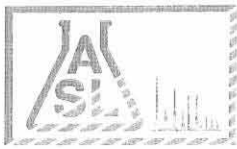
Time: 8:30

TAT

☒ Normal

☐ Rush

C F A I N C F C U S T O D Y R E C O R D



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

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Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

Number of Pages 17  
Date Received 12/10/2004  
Date Reported 12/21/2004

Telephone (858) 571-5500  
Attn Keith Etchells

Job Number	Ordered	Client
24070	12/10/2004	ENVBUS

Project ID: 01203520.00  
Project Name: MBLF  
Site: 50 Sea World Dr.  
South Shores

Enclosed are the results of analyses on 2 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar  
Laboratory Manager

Rojert G. Araghi  
Laboratory Director

RECEIVED

DEC 29 2004

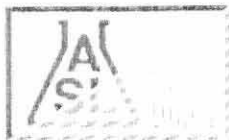
EBS  
SCS Engineers Co

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.







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*Environmental Testing Services*

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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 2

Project ID: 01203520.00

Project Name: MBLF

Job Number  
24070

Order Date  
12/10/2004

Client  
ENVBUS

Method: 120.1, Specific Conductance

### Batch No:

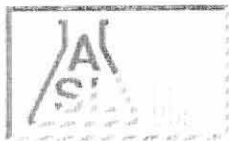
Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/10/2004	12/10/2004			
Preparation Method						
Date Analyzed		12/10/2004	12/10/2004			
Matrix		Groundwater	Groundwater			
Units		umhos/cm	umhos/cm			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventional						
Conductivity (umho/cm @77F)	1.00	52,200	52,500			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventional									
Conductivity (umho/cm @77F)	115	80-120							





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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
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San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 3

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 130.2, Hardness, Total (mg/L as CaCO<sub>3</sub>)

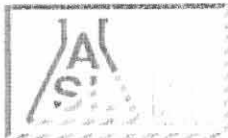
### Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/13/2004	12/13/2004			
Preparation Method						
Date Analyzed		12/13/2004	12/13/2004			
Matrix		Groundwater	Groundwater			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventional						
Hardness (Ca,Mg) as CaCO <sub>3</sub>	10	5,400	5,500			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventional									
Hardness (Ca,Mg) as CaCO <sub>3</sub>	100	80-120							



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## ANALYTICAL RESULTS

### Ordered By

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San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 4

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 150.1, pH

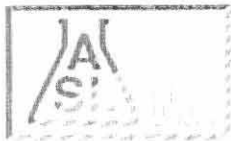
### Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/10/2004	12/10/2004			
Preparation Method						
Date Analyzed		12/10/2004	12/10/2004			
Matrix		Groundwater	Groundwater			
Units		pH Units	pH Units			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventionals						
pH	1.00	6.94	6.84			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
pH	100	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 5

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 160.1, Total Dissolved Solids (TDS)

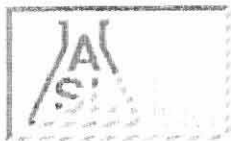
### Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/13/2004	12/13/2004			
Preparation Method						
Date Analyzed		12/13/2004	12/13/2004			
Matrix		Groundwater	Groundwater			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventional						
Solids, Total Dissolved (TDS)	10	33,900	34,900			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventional									
Solids, Total Dissolved (TDS)	99	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

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Project ID: 01203520.00

Project Name: MBLF

**Job Number**  
24070

**Order Date**  
12/10/2004

**Client**  
ENVBUS

Method: 300, Chloride by Ion Chromatography

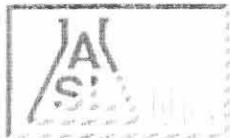
### Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/11/2004	12/11/2004			
Preparation Method						
Date Analyzed		12/11/2004	12/11/2004			
Matrix		Groundwater	Groundwater			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventionals						
Chloride	1.000	21,100	19,600			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Chloride	106	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 7

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 300, Sulfate by Ion Chromatography

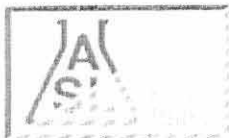
### Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/11/2004	12/11/2004			
Preparation Method						
Date Analyzed		12/11/2004	12/11/2004			
Matrix		Groundwater	Groundwater			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventionals						
Sulfate	1.00	2660	2640			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Sulfate	109	80-120							



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## ANALYTICAL RESULTS

### Ordered By

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San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 8

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 310.1, Alkalinity

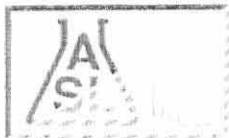
### Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/13/2004	12/13/2004			
Preparation Method						
Date Analyzed		12/13/2004	12/13/2004			
Matrix		Groundwater	Groundwater			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventionals						
Alkalinity, Total	10	360	350			
Bicarbonate	10	360	350			
Carbonate	10	ND	ND			
Hydroxide	10	ND	ND			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Alkalinity, Total	90	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 9

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 340.2, Fluoride (ISE)

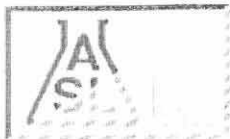
### Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/20/2004	12/20/2004			
Preparation Method						
Date Analyzed		12/20/2004	12/20/2004			
Matrix		Groundwater	Groundwater			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventionals						
Fluoride	0.10	0.99	0.95			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventionals									
Fluoride	119	80-120							



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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 10

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 352.1, Nitrate (Colorimetric)

### Batch No:

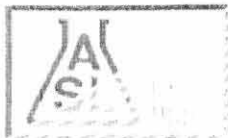
Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/10/2004	12/10/2004			
Preparation Method						
Date Analyzed		12/10/2004	12/10/2004			
Matrix		Groundwater	Groundwater			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventional						
Nitrate as N	0.10	0.40	0.30			

## QUALITY CONTROL REPORT

### Batch No:

	LCS	LCS/LCSD							
Analytes	% REC	% Limit							
Conventional									
Nitrate as N	101	80-120							





# AMERICAN SCIENTIFIC LABORATORIES, LLC

*environmental Testing Services*

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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 11

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

Client

ENVBUS

Method: 7199, Hexavalent Chromium by Ion Chromatography

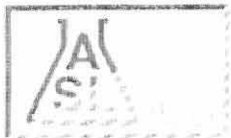
Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/10/2004	12/10/2004			
Preparation Method						
Date Analyzed		12/10/2004	12/10/2004			
Matrix		Groundwater	Groundwater			
Units		ug/L	ug/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Conventionals						
Chromium (VI)	1.000	ND	ND			

## QUALITY CONTROL REPORT

Batch No:

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
Chromium (VI)	119	80-120							



# AMERICAN SCIENTIFIC LABORATORIES, LLC

## Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

### ANALYTICAL RESULTS

#### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

#### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 12

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

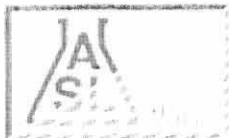
Client

ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 121604-1A

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Date Extracted		12/16/2004	12/16/2004			
Preparation Method						
Date Analyzed		12/16/2004	12/16/2004			
Matrix		Groundwater	Groundwater			
Units		ug/L	ug/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Acetone	5.00	ND	ND			
Benzene	1.000	ND	ND			
Bromobenzene (Phenyl bromide)	1.000	ND	ND			
Bromochloromethane (Chlorobromomethane)	1.000	ND	ND			
Bromodichloromethane (Dichlorobromomethane)	1.000	ND	ND			
Bromoform (Tribromomethane)	5.000	ND	ND			
Bromomethane (Methyl bromide)	3.000	ND	ND			
2-Butanone (MEK, Methyl ethyl ketone)	5.00	ND	ND			
n-Butylbenzene	1.000	ND	ND			
sec-Butylbenzene	1.000	ND	ND			
tert-Butylbenzene	1.000	ND	ND			
Carbon disulfide	1.000	ND	ND			
Carbon tetrachloride (Tetrachloromethane)	1.000	ND	ND			
Chlorobenzene	1.000	ND	ND			
Chloroethane	3.000	ND	ND			
2-Chloroethyl vinyl ether	5.000	ND	ND			
Chloroform (Trichloromethane)	1.000	ND	ND			
Chloromethane (Methyl chloride)	3.000	ND	ND			
4-Chlorotoluene (p-Chlorotoluene)	1.000	ND	ND			
2-Chlorotoluene (o-Chlorotoluene)	1.000	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	5.000	ND	ND			
Dibromochloromethane	1.000	ND	ND			
1,2-Dibromoethane (EDB, Ethylene dibromide)	1.000	ND	ND			
Dibromomethane	1.000	ND	ND			
1,2-Dichlorobenzene (o-Dichlorobenzene)	1.000	ND	ND			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1.000	ND	ND			



# AMERICAN SCIENTIFIC LABORATORIES, LLC

*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

## ANALYTICAL RESULTS

Page: 13  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
24070	12/10/2004	ENVBUS

Method: 8260B, Volatile Organic Compounds

Batch No: 121604-1A

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Analytes	PQL	Results	Results			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1.000	ND	ND			
Dichlorodifluoromethane	3.000	ND	ND			
1,1-Dichloroethane	1.000	ND	ND			
1,2-Dichloroethane	1.000	ND	ND			
1,1-Dichloroethene (1,1-Dichloroethylene)	1.000	ND	ND			
cis-1,2-Dichloroethene	1.000	ND	ND			
trans-1,2-Dichloroethene	1.000	ND	ND			
1,2-Dichloropropane	1.000	ND	ND			
1,3-Dichloropropane	1.000	ND	ND			
2,2-Dichloropropane	1.000	ND	ND			
1,1-Dichloropropene	1.000	ND	ND			
cis-1,3-Dichloropropene	1.000	ND	ND			
trans-1,3-Dichloropropene	1.000	ND	ND			
Ethylbenzene	1.000	ND	ND			
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	3.000	ND	ND			
2-Hexanone	5.000	ND	ND			
Isopropylbenzene	1.000	ND	ND			
p-Isopropyltoluene (4-Isopropyltoluene)	1.000	ND	ND			
MTBE	2.000	ND	ND			
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	5.00	ND	ND			
Methylene chloride (Dichloromethane, DCM)	5.00	ND	ND			
Naphthalene	1.000	ND	ND			
n-Propylbenzene	1.000	ND	ND			
Styrene	1.000	ND	ND			
1,1,1,2-Tetrachloroethane	1.000	ND	ND			
1,1,2,2-Tetrachloroethane	1.000	ND	ND			
Tetrachloroethene (Tetrachloroethylene)	1.000	ND	ND			
Toluene (Methyl benzene)	1.000	ND	ND			
1,2,3-Trichlorobenzene	1.000	ND	ND			
1,2,4-Trichlorobenzene	1.000	ND	ND			
1,1,1-Trichloroethane	1.000	ND	ND			
1,1,2-Trichloroethane	1.000	ND	ND			
Trichloroethene (TCE)	1.000	ND	ND			
Trichlorofluoromethane	1.000	ND	ND			
1,2,3-Trichloropropane	1.000	ND	ND			
1,2,4-Trimethylbenzene	1.000	ND	ND			
1,3,5-Trimethylbenzene	1.000	ND	ND			
Vinyl acetate	5.00	ND	ND			
Vinyl chloride (Chloroethene)	3.000	ND	ND			
o-Xylene	1.000	ND	ND			
m- & p-Xylenes	2.000	ND	ND			



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*Environmental Testing Services*

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## ANALYTICAL RESULTS

Page: 14  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
24070	12/10/2004	ENVBUS

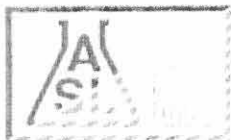
Method: 8260B, Volatile Organic Compounds

Our Lab I.D.		140430	140431			
Surrogates	Con. Limit	% Rec.	% Rec.			
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	99	102			
Dibromofluoromethane	70-120	105	109			
Toluene-d8	70-120	102	101			

## QUALITY CONTROL REPORT

Batch No: 121604-1A

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	99	92	7.3	75-120	15					
Chlorobenzene	106	109	2.8	75-120	15					
1,1-Dichloroethene (1,1-Dichloroethylene)	113	108	4.5	75-120	15					
MTBE	110	105	4.7	75-120	15					
Toluene (Methyl benzene)	96	93	3.2	75-120	15					
Trichloroethene (TCE)	115	107	7.2	75-120	15					



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*Environmental Testing Services*

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## ANALYTICAL RESULTS

### Ordered By

Environmental Business Solutions  
8799 Balboa Ave. Suite 290  
San Diego, CA 92123

### Site

50 Sea World Dr.  
South Shores

Telephone: (858)571-5500

Attn: Keith Etchells

Page: 15

Project ID: 01203520.00

Project Name: MBLF

Job Number

24070

Order Date

12/10/2004

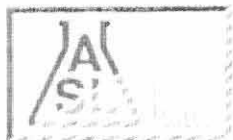
Client

ENVBUS

Method: 8270C, Semivolatile Organics

### Batch No:

Our Lab I.D.		140430	140431		
Sample ID		DP 3	DP 4		
Date Sampled		12/09/2004	12/09/2004		
Date Extracted		12/10/2004	12/10/2004		
Preparation Method					
Date Analyzed		12/10/2004	12/10/2004		
Matrix		Groundwater	Groundwater		
Units		ug/L	ug/L		
Detection Limit Multiplier		1	1		
Analytes	PQL	Results	Results		
Acenaphthene	10.00	ND	ND		
Acenaphthylene	10.00	ND	ND		
Anthracene	10.00	ND	ND		
Benz(a)anthracene (Benzo(a)anthracene)	10.00	ND	ND		
Benzo(a)pyrene	10.00	ND	ND		
Benzo(b)fluoranthene	10.00	ND	ND		
Benzo(ghi)perylene	10.00	ND	ND		
Benzo(k)fluoranthene	10.00	ND	ND		
Benzoic acid	10.00	ND	ND		
Benzyl alcohol	10.00	ND	ND		
Bis(2-chloroethoxy)methane	10.00	ND	ND		
Bis(2-chloroethyl)ether	10.00	ND	ND		
Bis(2-chloroisopropyl) ether	10.00	ND	ND		
Bis(2-ethylhexyl) phthalate	10.00	ND	ND		
4-Bromophenyl phenyl ether	10.00	ND	ND		
Butyl benzyl phthalate (Benzyl butyl phthalate)	10.00	ND	ND		
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1.00	ND	ND		
4-Chloroaniline	10.00	ND	ND		
2-Chloronaphthalene	10.00	ND	ND		
2-Chlorophenol (o-Chlorophenol)	1.00	ND	ND		
4-Chlorophenyl phenyl ether	10.00	ND	ND		
Chrysene	10.00	ND	ND		
Di-n-butyl phthalate	10.00	ND	ND		
Di-n-octyl phthalate (Dioctyl ester)	10.00	ND	ND		
Dibenz(a,h)anthracene	10.00	ND	ND		
Dibenzofuran	10.00	ND	ND		
1,3-Dichlorobenzene (m-Dichlorobenzene)	10.00	ND	ND		



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## ANALYTICAL RESULTS

Page: 16  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
24070	12/10/2004	ENVBUS

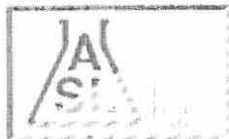
Method: 8270C, Semivolatile Organics

Batch No:

Our Lab I.D.		140430	140431			
Sample ID		DP 3	DP 4			
Date Sampled		12/09/2004	12/09/2004			
Analytes	PQL	Results	Results			
1,2-Dichlorobenzene (o-Dichlorobenzene)	10.00	ND	ND			
1,4-Dichlorobenzene	10.00	ND	ND			
3,3'-Dichlorobenzidine	20.00	ND	ND			
2,4-Dichlorophenol	1.00	ND	ND			
Diethyl phthalate (Diethyl ester)	10.00	ND	ND			
2,4-Dimethylphenol	1.00	ND	ND			
Dimethyl phthalate (Dimethyl ester)	10.00	ND	ND			
2,4-Dinitrophenol	1.00	ND	ND			
2,4-Dinitrotoluene	10.00	ND	ND			
2,6-Dinitrotoluene (2,6-DNT)	10.00	ND	ND			
Fluoranthene	10.00	ND	ND			
Fluorene	10.00	ND	ND			
Hexachlorobenzene	10.00	ND	ND			
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	20.00	ND	ND			
Hexachlorocyclopentadiene	10.00	ND	ND			
Hexachloroethane	10.00	ND	ND			
Indeno(1,2,3-cd)pyrene	10.00	ND	ND			
Isophorone	10.00	ND	ND			
2-methyl-4,6-Dinitrophenol	1.00	ND	ND			
2-Methylnaphthalene	10.00	ND	ND			
2-Methylphenol (o-Cresol, 2-Cresol)	1.00	ND	ND			
4-Methylphenol (p-Cresol, 4-Cresol)	1.00	ND	ND			
N-Nitroso-Di-n-propylamine	10.00	ND	ND			
N-Nitrosodiphenylamine	10.00	ND	ND			
Naphthalene	10.00	ND	ND			
2-Nitroaniline	10.00	ND	ND			
3-Nitroaniline	10.00	ND	ND			
4-Nitroaniline	10.00	ND	ND			
Nitrobenzene (NB)	10.00	ND	ND			
2-Nitrophenol (o-Nitrophenol)	1.00	ND	ND			
4-Nitrophenol	1.000	ND	ND			
Pentachlorophenol	1.000	ND	ND			
Phenanthrene	10.00	ND	ND			
Phenol	1.00	ND	ND			
Pyrene	10.00	ND	ND			
1,2,4-Trichlorobenzene	10.00	ND	ND			
2,4,5-Trichlorophenol	1.00	ND	ND			
2,4,6-Trichlorophenol	1.00	ND	ND			

Comment(s):

140430: Low Surrogate recovery due to matrix



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## ANALYTICAL RESULTS

Page: 17  
Project ID: 01203520.00  
Project Name: MBLF

Job Number	Order Date	Client
24070	12/10/2004	ENVBUS

Method: 8270C, Semivolatile Organics

Our Lab I.D.		140430	140431			
Surrogates	Con.Limit	% Rec.	% Rec.			
Surrogate Percent Recovery						
2-Fluorophenol	21-105	18	23			
Phenol-d6	10-107	20	27			
2,4,6-Tribromophenol	10-123	37	47			
Nitrobenzene-d5	35-114	47	58			
2-Fluorobiphenyl	33-116	48	60			
Terphenyl-d14	33-141	62	64			

## QUALITY CONTROL REPORT

Batch No:

	LCS	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD					
Analytes	% REC	% REC	% REC	% Limit	% Limit					
Acenaphthene	61	48	23.9	43-118	<30					
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	71	69	2.9	23-117	<30					
2-Chlorophenol (o-Chlorophenol)	55	54	1.8	27-113	<30					
1,4-Dichlorobenzene	51	39	26.7	36-105	<30					
2,4-Dinitrotoluene	45	34	27.8	24-120	<30					
N-Nitroso-Di-n-propylamine	101	79	24.4	41-116	<30					
4-Nitrophenol	17	13	26.7	10-133	<30					
Pentachlorophenol	37	31	17.6	9-118	<30					
Phenol	27	27	<1	12-110	<30					
Pyrene	50	40	22.2	26-127	<30					
1,2,4-Trichlorobenzene	58	43	29.7	39-98	<30					

**Ultra Low Detection Limit  
Groundwater Sample  
Analytical Report**



December 17, 2004



Ms. Tessa McRae  
SCS Engineers  
8799 Balboa Avenue  
Suite 290  
San Diego, CA 92123

Marine Sciences Laboratory  
1529 West Sequim Bay Road  
Sequim, Washington 98382

Telephone: (360) 681-3627  
Facsimile: (360) 681-3699

Dear Tessa:

Enclosed, please find final results for metals analyses performed on brackish water samples sent by Environmental Business Solutions and received by Battelle Marine Sciences Laboratory between November 16 and December 10, 2004. This report has been emailed to you in Excel format. The samples were received in good condition, checked against the accompanying custody forms and given MSL ID numbers. The samples were filtered, acidified and stored in a clean environment until analysis. One sample, MBW1, collected on 11/15/04, could not be filtered due to colloidal properties. Another sample from that site was subsequently collected on 11/23/04 and another attempt was made to filter it. The sample could not be filtered. Following phone discussions with you regarding this sample, the decision was made to analyze the sample collected on 11/15/04 as a total sample and discard the sample collected on 11/23/04. Samples were analyzed for mercury (Hg) by cold vapor atomic fluorescence, total and dissolved metals by ICP/MS, excluding As and Se which were analyzed by FIAS.

Results indicate detectable levels of all metals, except V and Ag in the field samples. Procedural blank results were less than 10x the method detection limit for most metals, except dissolved As, total As, Fe/Pd Cr, Ni, Cu, Cd and Tl. The reagents used for chelation following the Fe/Pd method contain trace amounts of these metals and in combination with our low detection limits, they are often detected in the method blanks. Only one blank metal concentration, Tl, was greater than 10x the MDL. All sample results were less than 5x the blank concentration and have been "b" flagged to indicate the results may be impacted. Field and trip blanks were near or less than the detection limit, except Zn in the field blank. Zinc is easily contaminated in the field and because the metal is detected at a significantly lower concentration in the trip blank, it indicates field contamination. Quality control results were within Battelle's default criteria for most metals, except the matrix spike for Ba where the spike concentration was inappropriate to the native sample concentration and the duplicate for Se where the results were less than 5x the MDL.

Table 1 and 2, (enclosed) describe the cost breakdown for this sampling and equipment used. If you have any problems with the data or discrepancies with the cost breakdown, please contact me as soon as possible at 360-681-3627. We will dispose of these samples on January 12th unless we hear otherwise from you.

Sincerely,

Linda S. Bingler  
Project Manager

enc.

**RECEIVED**

DEC 20 2004

EBS  
SCS Engineers Co

(cf#2306)		Fe/Pd		Fe/Pd		Fe/Pd		Fe/Pd		Fe/Pd		Fe/Pd		Fe/Pd		Fe/Pd	
MSL	Sponsor	Be	V	Cr	Co	Ni	Cu	Zn	Se	Mo	Ag	Cd	Sb	Ba	Tl	Pb	Hg
Code	Rep I.D.	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	FIAS	ICP-MS	GFAA	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	CVAF
SAMPLE RESULTS																	
2306*1	MBW2	0.0243	14.7	1.45	2.71	3.30	0.164	2.12	0.769	7.19	0.020 U	0.0216	0.280	1630	0.0240 b	0.0322	0.000739
2306*2	SCS4	0.00172	0.85 U	0.740	9.10	10.4	0.127	8.47	0.207	6.36	0.020 U	0.0131	0.284	525	0.0286 b	0.0194	0.00105
2306*3	SCS1	0.001 U	0.85 U	3.25	9.84	0.912	0.271	56.9	0.278	0.561	0.020 U	0.0357	0.446	4900	0.0277 b	0.0943	0.000810
2306*4	SCS2	0.00267	0.85 U	0.569	8.87	8.55	0.757	111	0.259	21.4	0.020 U	0.268	0.476	299	0.0330 b	0.0704	0.000994
2306*5	MBW1 (total)	0.0127	25.2	16.7	4.98	4.69	21.8	163	0.330	3.95	2.27	0.205	0.438	1670	0.0287 b	1.90	0.109
2306*6	MW10	0.00235	0.85 U	0.974	1.74	5.18	1.82	68.1	0.623	23.7	0.020 U	0.0528	0.753	50.3	0.0247 b	0.0740	0.00266
2306*7	MBW5	0.00197	0.85 U	0.184	9.25	8.99	2.96	118	0.183	53.0	0.0323	0.347	0.300	63.2	0.0304 b	0.0527	0.0206
2306*8	MBE6	0.00131	0.85 U	0.126	0.754	1.51	0.654	8.58	0.057 U	21.6	0.020 U	0.0633	0.099	54.6	0.0250 b	0.0124	0.000491
2306*9	SCS3	0.001 U	0.85 U	0.589	0.909	0.377	0.122	12.1	0.0824	6.04	0.020 U	0.0201	0.168	133	0.0245 b	0.0324	0.000423
2306*10	SCS5	0.00119	0.85 U	0.548	0.947	0.423	0.133	8.66	0.0720	0.057 U	0.020 U	0.0197	0.314	125	0.0243 b	0.0553	0.000425
2306*11	MBE4	0.0593	52.4	1.73	18.9	34.2	10.2	20.0	1.58	85.6	0.0366	0.124	0.889	657	0.0260 b	0.374	0.00420
2306*12	FB	0.001 U	0.85 U	0.595	0.07 U	0.026 U	0.0331	4.28	0.016 U	0.057 U	0.020 U	0.0107	0.073 U	0.018 U	0.0174 b	0.009 U	0.000159
2306*13	MBW3	0.0136	6.83	3.51	2.57	0.624	0.204	3.36	0.465	0.894	0.020 U	0.0380	0.200	678	0.0271 b	0.0228	0.000719
2306*14	TB	0.001 U	0.85 U	0.100	0.07 U	0.026 U	0.0372	0.110	0.057 U	0.145 U	0.020 U	0.00871	0.073 U	0.018 U	0.0174 b	0.009 U	0.000297
2306*16	DP1	0.001 U	0.85 U	0.289	1.18	2.22	1.03	429	0.140	11.9	0.0293	0.270	0.467	72.7	0.0671 b	0.0568	0.000343
2306*17	DP2	0.00183	0.85 U	0.153	2.32	5.02	0.299	2.20	0.284	15.8	0.0212	0.0486	0.781	31.9	0.0293 b	0.0648	0.000405
2306*18	DP3	0.00584	3.82	0.344	1.67	23.4	0.319	286	0.0800	8.94	0.020 U	0.0375	0.620	121	0.0259 b	0.0745	0.000406
2306*19	DP4	0.00603	0.85 U	0.420	1.02	3.00	0.324	307	0.0970	5.36	0.125	0.0367	0.287	100	0.0264 b	0.009 U	0.000485

PROCEDURAL BLANK

Dissolved	NA	0.85 U	NA	NA	0.07 U	NA	NA	NA	0.057 U	0.145 U	0.002 U	NA	0.073 U	0.018 U	NA	NA	NA
TRM	NA	0.85 U	NA	NA	0.07 U	NA	NA	NA	0.057 U	0.145 U	0.002 U	NA	0.073 U	0.018 U	NA	NA	NA
Fe/Pd	0.001 U	NA	0.0879	NA	NA	0.0286	0.0808	0.066 U	NA	NA	NA	0.00923	NA	NA	0.0221 b	0.009 U	NA
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00012 U

Method Detection Limit

1640	Direct	39.6	12.4	36.8	19.6	27.8	87.2	64.6	NA	45.4	7.49	24.7	13.7	141	0.00829	27.4	NA
1640	TRM	NA	13.1	NA	20.1	NA	NA	NA	NA	47.0	NA	NA	13	145	NA	27.7	NA

cert/ref value

1640	range	34.9	13.0	38.6	20.3	27.4	85.2	53.2	22.0	46.8	7.62	22.8	13.79	148	<0.1	27.9	NC
1640	% difference	±0.41	±0.37	±1.6	±0.31	±0.8	±1.2	±1.1	±0.51	±0.26	±0.25	±0.96	±0.42	±2.2	NA	±0.14	NA
	% difference	13%	5%	5%	3%	1%	2%	21%	N/A	3%	2%	8%	N/A	5%	N/A	2%	N/A
	% difference	N/A	1%	N/A	1%	N/A	N/A	N/A	3%	1%	N/A	N/A	N/A	2%	N/A	1%	N/A

CASS-4

		NA	NA	0.256	NA	0.410	0.771	0.343	NA	NA	NA	0.036	NA	NA	NA	NA	NA
--	--	----	----	-------	----	-------	-------	-------	----	----	----	-------	----	----	----	----	----

certified value

CASS-4	range	NC	1.18	0.144	0.026	0.314	0.592	0.381	NC	8.78	NC	0.026	NC	NC	NC	0.0098	NC
CASS-4	% difference	NA	±0.16	±0.29	±0.003	±0.030	±0.055	±0.057	NA	±0.86	NA	±0.003	NA	NA	NA	±0.058	NA
	% difference	N/A	N/A	78% #	N/A	31% #	30% #	10%	N/A	N/A	N/A	38% #	N/A	N/A	N/A	N/A	N/A

(cf#2306)		Fe/Pd			Fe/Pd			Fe/Pd			Fe/Pd			Fe/Pd			Fe/Pd			Fe/Pd		
MSL	Sponsor	Be	V	Cr	Co	Ni	Cu	Zn	As	Se	Mo	Ag	Cd	Sb	Ba	Tl	Pb	Hg				
Code	Rep I.D.	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	FIAS	FIAS	ICP-MS	GFAA	ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS	CVAF				
STANDARD REFERENCE MATERIAL, cont.																						
CASS-4	Blank Corrected	NA	NA	0.168	NA	0.381	0.690	NA	NA	NA	NA	NA	0.0268	NA	NA	NA	NA	NA	NA	NA		
CASS-4	certified value	NC	1.18	0.144	0.026	0.314	0.592	0.381	1.1	NC	8.78	NC	0.026	NC	NC	NC	0.0098	NC	NA	NA		
CASS-4	range	NA	±0.16	±0.29	±0.003	±0.030	±0.055	±0.057	±0.16	NA	±0.86	NA	±0.003	NA	NA	NA	±0.058	NA	NA	NA		
CASS-4	% difference	N/A	N/A	17%	N/A	21%	17%	N/A	N/A	N/A	N/A	N/A	3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
1641d		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1573				
1641d	certified value	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1590				
1641d	range	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	±4.00				
1641d	% difference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1%				
MATRIX SPIKE RESULTS																						
Amount Spiked		5.00	50.0	5.00	5.00	5.00	5.00	5.00	NS	NS	50.0	5.00	5.00	5.00	50.0	5.00	5.00	NS				
2306*1		0.0243	14.7	1.45	2.71	3.30	0.164	2.12	N/A	N/A	7.19	0.020 U	0.0216	0.280	1630	0.0240	0.0322	N/A				
2306*1 + Spike		5.86	67.7	6.48	7.07	8.28	4.85	6.45	NA	NA	59.2	5.06	4.87	4.77	1780	5.30	4.19	NA				
Amount Recovered		5.84	53.0	5.03	4.36	4.98	4.69	4.33	N/A	N/A	52.0	5.04	4.85	4.49	150	5.28	4.16	N/A				
Percent Recovery		117%	106%	101%	87%	100%	94%	87%	N/A	N/A	104%	101%	97%	90%	300% sl	106%	83%	N/A				
Amount Spiked		NS	NS	NS	NS	NS	NS	NS	5.00	5.00	NS	NS	NS	NS	NS	NS	NS	NS				
2306*9		N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0824	0.0890	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
2306*9 + Spike		NA	NA	NA	NA	NA	NA	NA	4.86	5.24	NA	NA	NA	NA	NA	NA	NA	N/A				
Amount Recovered		N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.78	5.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Percent Recovery		N/A	N/A	N/A	N/A	N/A	N/A	N/A	96%	103%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Amount Spiked		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00465				
2306*10		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000425				
2306*10 + Spike		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00480				
Amount Recovered		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00438				
Percent Recovery		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94%				
REPLICATE RESULTS																						
2306*1	1 MBW2	0.0243	14.7	1.45	2.71	3.30	0.164	2.12	NA	NA	7.19	0.020 U	0.0216	0.280	1630	0.0240	0.0374	0.000739				
2306*1	2 MBW2	0.0207	15.2	1.61	2.82	3.35	0.160	2.15	NA	NA	7.28	0.020 U	0.0220	0.276	1660	0.0253	0.0406	NA				
RPD		16%	3%	10%	4%	2%	2%	1%	N/A	N/A	1%	N/A	2%	1%	2%	5%	8%	N/A				
2306*2	1 SCS4	0.00172	0.85 U	0.740	9.10	10.4	0.127	8.47	0.802	0.207	6.36	0.020 U	0.0131	0.284	525	0.0286	0.0487	0.00105				
2306*2	2 SCS4	NA	NA	NA	NA	NA	NA	NA	0.809	0.268	NA	NA	NA	NA	NA	NA	NA	NA				
RPD		N/A	N/A	N/A	N/A	N/A	N/A	N/A	1%	26% #	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
2306*7	1 MBW5	0.00197 U	0.85 U	0.184	9.25	8.99	2.96	118	2.90	0.183	53.0	0.0323	0.347	0.300	63.2	0.0304	0.0647	0.0206				
2306*7	2 MBW5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0203				
RPD		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1%				

Mission Bay Landfill  
Environmental Business Solutions  
CONCENTRATIONS OF METALS IN SEAWATER SAMPLES  
Samples Received: 11/16-12/10/04  
(concentrations in µg/L - not blank corrected)

[illegible]

U = not detected at or above detection limit.

NC = not certified.

NA = not analyzed or available.

N/A = not applicable.

b = Sample results are less than 5 x the blank.

# = result is outside of acceptable method criteria.

SL = spike level inappropriate to native sample concentration.

## LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 2306Sample No(s): 1-11Project Manager: Benzler

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)	
Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
Matrix: <u>Seawater (saline groundwater) #1573</u> <u>check salinity</u>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>
Navy-type Project (requires high-level sample tracking procedures)	
<input checked="" type="checkbox"/>	<input type="checkbox"/>
Filter Samples: Amount: <u>Entire sample</u> Half of sample	
<input type="checkbox"/>	<input type="checkbox"/>
Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)	
<input type="checkbox"/>	<input type="checkbox"/>
Special instructions: <u>check salinity</u>	
Sample Preservation Instructions: <u>See Lines</u>	
Date To Archive: _____ Date To Dispose: _____	

## TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Was a custody seal present?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Was the custody seal intact?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Was cooler(s) temperature(s) within acceptable range of $4 \pm 2^\circ\text{C}$ ? <u>5.2</u> $^\circ\text{C}$ ✓ (if multiple coolers, note temp. of each) $^\circ\text{C}$
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were <u>all</u> chain of custody forms signed and dated?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were samples filtered at MSL?

Sample condition(s):

Acceptable

Other (explain): \_\_\_\_\_

Container type:

Teflon

Poly

Glass

Spex

Other: \_\_\_\_\_

Notes: \_\_\_\_\_

Completed By: [Signature]Date/Time: 11/16/04 1210

## SAMPLE PRESERVATION

<input checked="" type="checkbox"/>	Sample(s) were preserved at MSL
<input type="checkbox"/>	Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
<input checked="" type="checkbox"/>	Random pH checked for ~10% of samples (use dip paper) Sample IDs: <u>8+7</u>
<input type="checkbox"/>	Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:

☒0.2% HNO<sub>3</sub>

Notes:

OPTIMA COTE# 1203030☐

0.5% HCl (Hg samples)

Notes:

☐

Refrigerate/Freeze

Notes:

☐

Other

Notes:

Completed By: [Signature]Date/Time: 11/16/04 1820Storage L 6 D

## LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 2306

Sample No(s): 15-2306<sup>17</sup>

Project Manager: Binsler

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)	
Matrix: <u>ultra - possibly saline</u> WP# <u>W71873</u>	
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Navy-type Project (requires high-level sample tracking procedures)
<input checked="" type="checkbox"/>	Filter Samples: Amount: <input type="checkbox"/> Entire sample <input type="checkbox"/> Half of sample
<input type="checkbox"/>	<input checked="" type="checkbox"/> Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Special instructions: _____
Sample Preservation Instructions: _____	
Date To Archive: _____ Date To Dispose: <u>See Lims</u>	

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN			
Yes	No	N/A	Indicate in Appropriate Box
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Was a custody seal present?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Was the custody seal intact?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Was cooler(s) temperature(s) within acceptable range of $4 \pm 2^\circ\text{C}$ ? <u>5.9</u> °C ✓ (if multiple coolers, note temp. of each) _____ °C
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were <u>all</u> chain of custody forms signed and dated?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were samples filtered at MSL?

Sample condition(s):

Acceptable

Other (explain):

Container type:

Teflon

Poly

Glass

Spex

Other: \_\_\_\_\_

Notes: \_\_\_\_\_

Completed By: [Signature]Date/Time: 11/24/04 1300

## SAMPLE PRESERVATION

<input checked="" type="checkbox"/>	Sample(s) were preserved at MSL
<input type="checkbox"/>	Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
<input checked="" type="checkbox"/>	Random pH checked for ~10% of samples (use dip paper) Sample IDs: <u>16+17</u>
<input type="checkbox"/>	Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type: <input checked="" type="checkbox"/>	0.2% HNO <sub>3</sub>	Notes: <u>OPTIONAL LOT# 1203030</u>
<input type="checkbox"/>	0.5% HCl (Hg samples)	Notes: _____
<input type="checkbox"/>	Refrigerate/Freeze	Notes: _____
<input type="checkbox"/>	Other	Notes: _____

Completed By: R. WoodDate/Time: 11/24/04 1655

Storage of # 16+17 KSD

Note: 1 sample # 2306-15 could not filter, was refrigerated



## LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 2306 Sample No(s): 18-19Project Manager: Bungler

## TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: water - possibly saline WP# W 71873

Yes No

☐ ☒ Navy-type Project (requires high-level sample tracking procedures)

☒ ☐ Filter Samples: Amount: ☐ Entire sample ☐ Half of sample

☐ ☒ Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Lab# 130)

☐ ☒ Special instructions: \_\_\_\_\_

## Sample Preservation Instructions: \_\_\_\_\_

Date To Archive: \_\_\_\_\_

Date To Dispose: See Lms

## TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes No N/A Indicate in Appropriate Box

☐ ☒ ☐ Was a custody seal present?☐ ☐ ☒ Was the custody seal intact?☒ ☐ ☐ Was cooler(s) temperature(s) within acceptable range of  $4 \pm 2^\circ\text{C}$ ? 2-6  $^\circ\text{C}$   
(if multiple coolers, note temp. of each)  $^\circ\text{C}$ ☐ ☐ ☒ Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)?  
Comment/Remedy: \_\_\_\_\_☒ ☐ ☐ Were all chain of custody forms signed and dated?☒ ☒ ☐ Were samples filtered at MSL?Sample condition(s): msl

Acceptable

Other (explain): \_\_\_\_\_

Container type:

Teflon Poly Glass Spex

Other: \_\_\_\_\_

Notes: \_\_\_\_\_

Completed By: [Signature]Date/Time: 12/10/04 1155

## SAMPLE PRESERVATION

☒ Sample(s) were preserved at MSL☐ Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)☒ Random pH checked for ~10% of samples (use dip paper) Sample IDs: 18 + 19☐ Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type: ☒ 0.2% HNO<sub>3</sub>Notes: OPTIMA LOT# 1203030☐ 0.5% HCl (Hg samples)

Notes: \_\_\_\_\_

☐ Refrigerate/Freeze

Notes: \_\_\_\_\_

☐ Other

Notes: \_\_\_\_\_

Completed By: R. WoodDate/Time: 12/10/04 16:55

Storage KSD

RECEIVED

**SAMPLE CUSTODY RECORD**  
(SOP# MSL-A-001 & MSL-A-002)

DEC 20 2004

Date: 11/15/04

EBS

SCS Engineers Co

Project Name: Mission Bay Landfill  
Project Manager: Tessa McRee  
Phone Number: 858-571-5500

Shipment Method: FedEx Express  
Preservation: none

**Battelle**  
... Putting Technology To Work  
Pacific Northwest Division  
Marine Sciences Laboratory  
1529 West Sequim Bay Road  
Sequim, Washington 98382

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters	Laboratory ID	Observations/Comments
1	MBWZ	11/15/04/810	Water	1	H <sub>2</sub> (1631)	2306-1	
2	SCSA	11/15/04/830		1		2	
3	SCS1	11/15/04/850		1		3	
4	SCS2	11/15/04/930		1		4	
5	MBW1	11/15/04/912		1		5	NOT filtered - run total (TBM)
6	MW1D	11/15/04/1003		1		6	
7	MBW5	11/15/04/1020		1		7	
8	NBE6	11/15/04/1046		1		8	
9	SCS3	11/15/04/1105		1		9	
10	SCS5	11/15/04/1115		1		10	
11	MBE4	11/15/04/1245		1		11	
12	FB	11/15/04/1255		1		12	
13	MBW3	11/15/04/1315		1		13	
14	TB		↓	1		2306-12 14	
15							

Relinquished By: [Signature] Company: EBS  
Signature/Printed Name: KEITH ETHELS Date/Time: 11/15/04/1450

Received By: [Signature] Company: MSL  
Signature/Printed Name: MUFH Egan Date/Time: 11/15/04 1200

Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_  
Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_



... .., пер...

**Battelle**  
... Putting Technology To Work  
Pacific Northwest Division  
Marine Sciences Laboratory  
1529 West Sequim Bay Road  
Sequim, Washington 98382

Shipment Method: FedEx Express  
Preservation: None

No. of Containers	Test Parameters
1	Be, V, Cr, Ni, Co, Cu, Zn, As, Ag (1640)
1	Mn, Sb, Cd, Ba, Pb, Se (1640)
1	Hg (1631)
1	2306*
1	2306*

Note: Sample MBW1 was collected as a replacement for the sample collected from the same site on 11/15/04 if it could be filtered due to colloidal properties. Samples #3305 and 3306 x 15 could not be filtered. As per DE if neither sample could be filtered then only the original C1st collected sample on 11/15/04 should be analyzed.

Received By:	Company:	Date/Time:
Signature/Printed Name		

# SAMPLE CUSTODY RECORD

(SOP# MSL-A-001 & MSL-A-002)

Project Name: Mission Bay Landfill

Project Manager: Tessa McRee

Phone Number: 858-571-5500

Shipment Method: FedEx Express

Preservation: None

Date: 12/9/04



... Putting Technology To Work

Pacific Northwest Division

Marine Sciences Laboratory

1529 West Sequim Bay Road

Sequim, Washington 98382

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters		Laboratory ID	Observations/Comments
					Ag (1640)	Hg (1631)		
1	DP3	12/9/04/1210	GW	1	Ag (1640)	Hg (1631)	2306-18	
2	DP4	12/9/04/1330	GW	1	Ag (1640)	Hg (1631)	2306-19	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By: [Signature] Company: EBS Date/Time: 12/9/04/1030

Signature/Printed Name: KATH ECHOLS

Received By: [Signature] Company: MSL Date/Time: 12/9/04 1155

Signature/Printed Name: [Signature]

Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Signature/Printed Name: \_\_\_\_\_

Received By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Signature/Printed Name: \_\_\_\_\_